

A1-F18AC-630-300

1 SEPTEMBER 1992

CHANGE 2 - 15 APRIL 1996

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB

DATA LINK, INSTRUMENT LANDING, AND RADAR BEACON SYSTEMS

**NAVY MODEL
F/A-18A AND F/A-18B
161353 AND UP**

DISTRIBUTION STATEMENT C. Distribution authorized to U.S. Government agencies and their contractors to protect publications required for official use or for administrative or operational purposes, determined on 1 April 1992. Other requests for this document shall be referred to Commanding Officer, Naval Air Technical Services Facility, 700 Robbins Avenue, Philadelphia, PA 19111-5097.

DESTRUCTION NOTICE. For unclassified, limited documents, destroy by any method that will prevent disclosure of contents or reconstruction of the document.

PUBLISHED BY DIRECTION OF COMMANDER, NAVAL AIR SYSTEMS COMMAND

0801LP6636819

NATEC ELECTRONIC MANUAL

NUMERICAL INDEX OF EFFECTIVE WORK PACKAGES/PAGES

List of Current Changes

Original 0 1 Sep 1992 Change 1 1 Jan 1996 Change 2 15 Apr 1996

Only those work packages/pages assigned to the manual are listed in this index. Insert Change 2, dated 15 April 1996. Dispose of superseded and deleted work packages/pages. Superseded and deleted classified work packages/pages shall be destroyed in accordance with applicable regulations. If changed pages are issued to a work package, insert the changed pages in the applicable work package. The portion of text affected in a changed or revised work package is indicated by change bars or the change symbol "R" in the outer margin of each column of text. Changes to illustrations are indicated by pointing hands or change bars, as applicable.

Total number of pages in this manual is 122, consisting of the following:

WP/Page Number	Change Number	WP/Page Number	Change Number	WP/Page Number	Change Number	WP/Page Number	Change Number
Title	2	005 00		6 Blank	0	8 Blank	0
A	2	1 - 4	0	011 00		016 00	
TPDR-1	1	006 00		1 - 4	0	1	1
TPDR-2 Blank	1	1 - 6	0	012 00		2 - 8	0
001 00		007 00		1 - 15	0	9	1
1 - 2	2	1 - 6	0	16 Blank	0	10 - 13	0
001 01		008 00		013 00		14 Blank	0
1	2	1 - 4	0	1 - 6	0	017 00	
2 Blank	2	009 00		014 00		1 - 6	2
002 00		1 - 4	0	1 - 6	0	018 00	
1 - 6	1	010 00		015 00		1 - 5	2
003 00		1 - 5	0	1 - 7	0	6 Blank	2
1 - 6	0						
004 00							
1 - 6	1						

LIST OF TECHNICAL PUBLICATIONS DEFICIENCY REPORTS INCORPORATED

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

DATA LINK, INSTRUMENT LANDING, AND RADAR BEACON SYSTEMS

This WP supersedes TPDR WP, dated 1 September 1992.

1. The TPDRs listed below have been incorporated in this issue.

REPORT CONTROL NUMBER	LOCATION
R09365-93-0015	WP018 00, Pg. 5

ALPHABETICAL INDEX

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

DATA LINK, INSTRUMENT LANDING, AND RADAR BEACON SYSTEMS

This Work Package supersedes WP001 00, dated 1 September 1992.

<u>Title</u>	<u>WP Number</u>
Aircraft Instrumentation Subsystem, Internal, AN/ASQ-T 16 (61A-A246) and AN/ASQ-T31(V)	017 00
Antenna, Blade, AS-4319/ASQ(61E-G244)	018 00
Antenna, KA-Band, AS-3362/APN(72E-B003)	011 00
Antenna, KU-Band, AS-3361/ARA-63(74E-A011)	005 00
Antenna, X-Band, AS-3017/APN(72E-B004)	010 00
Assembly, KA-Band Waveguide (72W-B501) or KA-Band Coax Cable/Waveguide Assembly (72W-B502)	012 00
Assembly, KU-Band Waveguide (74W-B501)	006 00
Assembly, Radar Receiver R-1623/APN Support	013 00
Band Pass Filter F-1472/ARC (77FLE003 or 77FLF003)	015 00
Base, R-1379/ARA-63 Electrical Equipment Mounting	007 00
Base, RT-1028/APN-202 Electrical Equipment Mounting	014 00
Decoder, Pulse, KY-651()/ARA-63 (74A-F002)	004 00
Dummy Connector, Antenna	018 00
Filter, Band Pass, F-1472/ARC (77FLE003 or 77FLF003)	015 00
Introduction	002 00
Effectivities	002 00
Illustrated Parts Breakdown	002 00
Manual Issue Date	002 00
Navy (AN) Standard/Common Name Nomenclature	002 00
Purpose	002 00
Quality Assurance Procedures	002 00
Record of Applicable Technical Directives	002 00
Requisitioning and Distribution of Navair Technical Publications	002 00
Technical Directives	002 00
Technical Publications Deficiency Report (TPDR)	002 00
KA-Band Antenna AS-3362/APN (72E-B003)	011 00
KA-Band Waveguide Assembly (72W-B501) or KA-Band Coax Cable/Waveguide Assembly (72W-B502)	012 00
KU-Band Antenna AS-3361/ARA-63 (74E-A011)	005 00
KU-Band Waveguide Assembly (74W-B501)	006 00
Mount, Resilient-Vibration	
Radar Receiver R-1623/APN Support Assembly	013 00
R-1379()/ARA-63 Electrical Equipment Mounting Base	007 00
RT-1028/APN-202 Electrical Equipment Mounting Base	014 00
Pulse Decoder KY-651()/ARA-63(74A-F002)	004 00

<u>Title</u>	<u>WP Number</u>
Radar Receiver R-1623/APN (72REB001)	009 00
Radar Receiver R-1623/APN Support Assembly	013 00
Radar Receiver-Transmitter RT-1028/APN-202(72A-A002)	008 00
Radio Receiver R-1379()/ARA-63(74REB001)	003 00
Receiver, Radar, R-1623/APN(72REB001)	009 00
Receiver, Radio, R-1379()/ARA-63(74REB001)	003 00
Receiver-Transmitter-Processor RT-1379()/ASW(77A-K001, 77A-L001)	016 00
Receiver-Transmitter, Radar, RT-1028/APN-202(72A-A002)	008 00
Resilient-Vibration Mount	
Radar Receiver R-1623/APN Support Assembly	013 00
R-1379/ARA-63 Electrical Equipment Mounting Base	007 00
RT-1028/APN-202 Electrical Equipment Mounting Base	014 00
R-1379/ARA-63 Electrical Equipment Mounting Base	007 00
RT-1028/APN-202 Electrical Equipment Mounting Base	014 00
Tactical Air Combat Training System (TACTS)	
Antenna Dummy Connector	018 00
Blade Antenna AS-4319/ASQ (61E-G244)	018 00
Internal Aircraft Instrumentation Subsystem AN/ASQ-T16 (61A-A246) and AN/ASQ-T31(V)	017 00
X-Band Antenna AS-3017/APN (72E-B004)	010 00

WORK PACKAGE INDEX**ORGANIZATIONAL MAINTENANCE****DATA LINK, INSTRUMENT LANDING, AND RADAR BEACON SYSTEMS**

This Work Package supersedes WP001 01, dated 1 September 1992.

WP Number	Title
001 00	Alphabetical Index
001 01	Work Package Index
002 00	Introduction
003 00	Radio Receiver R-1379()/ARA-63
004 00	Pulse Decoder KY-651()/ARA-63
005 00	KU-Band Antenna AS-3361/ARA-63
006 00	KU-Band Waveguide Assembly
007 00	R-1379/ARA-63 Electrical Equipment Mounting Base and Resilient-Vibration Mount
008 00	Radar Receiver-Transmitter RT-1028/APN-202
009 00	Radar Receiver R-1623/APN
010 00	X-Band Antenna AS-3017/APN
011 00	KA-Band Antenna AS-3362/APN
012 00	KA-Band Coax Cable/Waveguide and Waveguide Assembly
013 00	Radar Receiver R-1623/APN Support Assembly and Resilient-Vibration Mount
014 00	RT-1028/APN-202 Electrical Equipment Mounting Base and Resilient-Vibration Mount
015 00	Band Pass Filter F-1472/ARC
016 00	Receiver-Transmitter-Processor RT-1379()/ASW
017 00	Internal Aircraft Instrumentation Subsystem AN/ASQ-T16 and AN/ASQ- T31(V)
018 00	Blade Antenna AS-4319/ASQ and Antenna Dummy Connector

INTRODUCTION**ORGANIZATIONAL MAINTENANCE****SYSTEM MAINTENANCE WITH IPB****DATA LINK, INSTRUMENT LANDING, AND RADAR BEACON SYSTEMS**

This WP supersedes WP002 00 dated, 1 September 1992.

1. PURPOSE.

2. This manual provides the technician with the data required for removing, cleaning, inspecting, repairing, installing, adjusting, and aligning system components. Illustrated parts breakdown and extreme environmental maintenance data are provided where applicable.

3. REQUISITIONING AND DISTRIBUTION OF NAVAIR TECHNICAL PUBLICATIONS.

4. Procedures to be used by Naval Activities and other Department of Defense organizations requiring NAVAIR technical publications are defined in the NAVAL AIR SYSTEMS COMMAND TECHNICAL MANUAL PROGRAM manual, NAVAIR 00-25-100 and NAVAIR-INST 5605.5, Distribution of aeronautic technical publications. To automatically receive future changes and revisions to NAVAIR technical manuals, an activity must be established on the Automatic Distribution Requirements List (ADRL) maintained by the Naval Air Technical Services Facility (NAVAIRTECHSERV-FAC). To become established on the ADRL, notify your activity central technical publications librarian. If your activity does not have a library, you may establish your automatic distribution requirements by contacting the Commanding Officer, NAVAIRTECHSERV-FAC, Attn: Code 321,700 Robbins Avenue, Philadelphia, PA 19111-5097. Annual reconfirmation of these requirements are necessary to remain on automatic distribution. Please use your NAVAIRTECHSERV-FAC assigned account number whenever referring to automatic distribution requirements.

If additional or replacement copies of this manual are required with no attendant changes in the ADRL, they may be ordered by submitting a DD 1348 requisition

directly to the Commanding Officer, Naval Aviation Supply Office, Naval Publications and Forms Directorate, 5801 Tabor Road, Philadelphia, PA 19120-5099.

5. MANUAL ISSUE DATE.

6. The date on the title page is the copy freeze date. No additions, deletions, or changes are made after the manual issue date except last minute safety of flight or required maintenance changes. Data collected after the manual issue date will be included in later changes or revisions of the manual.

7. EFFECTIVITIES.

8. Effectivity notes on manual title pages, work package title pages, and within a work package indicate the aircraft or software program to which the data applies. If no effectivity note appears on the work package title page, the work package has the same effectivity as shown on the manual title page. The effectivity notes may use:

NOTE

Aircraft with model designator F/A-18B are the same type and model as TF/A-18A.

- a. Type, model, and series
- b. Bureau number (tail number)
- c. Combination of type, model, series, and bureau numbers
- d. Part number or serial number
- e. Technical directive number

f. Configuration/identification number

9. The table below shows examples of effectivity notes and their meaning:

Effectivity Note Examples

Effectivity Note	Definition
160777 AND UP	Applicable to all F/A-18A, F/A-18B, F/A-18C and F/A-18D for bureau numbers listed.
F/A-18A, F/A-18B	Applicable to all F/A-18A and F/A-18B.
F/A-18C, F/A-18D	Applicable to all F/A-18C and F/A-18D.
F/A-18A	Applicable to all F/A-18A, but not F/A-18B, F/A-18C and F/A-18D.
F/A-18B	Applicable to all F/A-18B, but not F/A-18A, F/A-18C, and F/A-18D.
F/A-18C	Applicable to all F/A-18C, but not F/A-18A, F/A-18B, and F/A-18D.
F/A-18D	Applicable to all F/A-18D, but not F/A-18A, F/A-18B, and F/A-18C.
F/A-18A, F/A-18C	Applicable to all F/A-18A and F/A-18C, but not to F/A-18B and F/A-18D.
F/A-18B, F/A-18D	Applicable to all F/A-18B and F/A-18D, but not to F/A-18A and F/A-18C.
F/A-18A 160775, 160777 THRU 160782	Only applicable to some bureau numbers of F/A-18A. Not applicable to any F/A-18B, even if a F/A-18B bureau number is within the numbers listed.
F/A-18C 163427, 163430 THRU 163456	Only applicable to some bureau numbers of F/A-18C. Not applicable to any F/A-18D, even if a F/A-18D bureau number is within the numbers listed.
F/A-18B 160784 AND UP	Only applicable to some bureau numbers of F/A-18B. Not applicable to any F/A-18A, even if an F/A-18A bureau number is within the numbers listed.
F/A-18D 163434 THRU 163457	Only applicable to some bureau numbers of F/A-18D. Not applicable to any F/A-18C, even if a F/A-18C bureau number is within the numbers listed.
160775 THRU 160785 BEFORE F/A-18 AFC 772	Applicable to F/A-18A and F/A-18B for bureau numbers listed, before modification by technical directive.

Effectivity Note Examples (Continued)

Effectivity Note	Definition
161213 AND UP; ALSO 160775 THRU 160785 AFTER F/A-18 AFC 772	Applicable to aircraft modified during production; also applicable when affected aircraft have been modified by technical directive.
160775 THRU 160785; WHEN NO. 2 CONTROL PANEL P/N XXXX-X IS INSTALLED	Applicable to F/A-18A and F/A-18B for bureau numbers listed if panel P/N XXXX-X is installed. (Configuration before AVC)
161213 AND UP; ALSO 160775 THRU 160785; WHEN NO. 2 CONTROL PANEL P/N XXXX-Y (AVC-102) IS INSTALLED	Applicable to aircraft modified during production; also applicable to aircraft components modified to the production configuration by technical directive. (Configuration after AVC)
P/N MBEU65101-9, MBEU65101-10 & MBEU65105-3	Applicable to assemblies which are interchangeable between aircraft.
ENGINE NO. 215101 THRU 215109	Applicable to assemblies which are interchangeable between aircraft, but configurations can not be identified by part number.
CONFIG/IDENT NUMBER 84A	The CONFIG/IDENT Number is the program load identification number which identifies the software program loaded in specific programmable units. Refer to A1-F18AC-SCM-000 for CONFIG/IDENT Number tables.

10. TECHNICAL DIRECTIVES.

11. Technical directives are documents which direct the accomplishment, and recording of a retrofit configuration or inspection to delivered aircraft, or aircraft components.

12. AIRFRAME CHANGE (AFC) AND AIRBORNE TACTICAL SOFTWARE CHANGE (ASC). Technical directives which change configuration of aircraft structure or equipment installation, i.e. AFC, will list aircraft bureau numbers in effectivity notes and show before and after the AFC. Technical directives which change configuration of operational flight programs (OFP), i.e. ASC, will list the OFP CONFIG/IDENT NUMBER in effectivity notes and show the latest two authorized OFP programs. See AFC and ASC effectivity examples in Effectivity Note Example Table.

13. AIRCRAFT COMPONENT CHANGES. Technical directives which change configuration of aircraft components, i.e. AAC, ACC, AVG, AYC, and PPC

will list part numbers in the effectivities. See AVC effectivity examples in Effectivity Note Example table.

14. HISTORICAL RECORD/RECORD OF APPLICABLE TECHNICAL DIRECTIVES

15. The technical directives affecting this manual are listed in the Record of Applicable Technical Directives of each affected work package. Because an ASC directs all aircraft be modified within 30 days, ASC's are not listed. When all affected aircraft are modified, the before configuration is removed from the manual, and the technical directive entry is removed from the each affected work package and entered in Historical Record of Applicable Technical Directives.

16. TECHNICAL PUBLICATIONS DEFICIENCY REPORT (TPDR).

17. The TPDR (OPNAV FORM 4790/66) is the form for reporting errors and suspected omissions in the technical manuals. Reporting procedures are in OPNAVINST 4790.2 SERIES.

18. QUALITY ASSURANCE PROCEDURES.

19. Procedures or parts of procedures which require quality assurance inspection are identified by the letters (QA) after the applicable steps. When (QA) is assigned to a step or a heading which is immediately followed by substeps, the inspection requirement is applicable to all substeps.

20. When doing maintenance in any area, a visual inspection of the area will be made for cracks, corrosion and security of component installation before securing the area for flight.

21. ILLUSTRATED PARTS BREAKDOWN.

22. Each illustrated parts breakdown (IPB) in this manual has a parts list and illustration for the requisition, storage, authority for use and identification of parts. The illustration is integrated with, and supports, both the maintenance procedure and the parts list within each work package.

23. **PART NUMBER COLUMN.** Footnote symbols in the part number column are defined following the last part listed in each parts list (also see converted part numbers, this WP).

24. **INDENTION.** The first entry in the description column of each parts list is the figure title. This figure title identifies the parts list with the related maintenance procedure and is shown in the first indent. All parts data required to support the specific maintenance procedure is below the figure title in the second indent.

25. **COMMON NAMES,** The official nomenclature in the description column may not be the name commonly used for an item. If different from the official nomenclature, the common name is shown in parentheses in the description column immediately following the official nomenclature.

26. **COMMERCIAL AND GOVERNMENT ENTITY CODES.** Entity code or manufacturer's name and address are shown in the Description column in parentheses after the nomenclature for the item. These codes are per the Commercial and Government Entity (CAGE) Handbook H4/H8 Series. No code indicates the item is a government standard part.

27. **ATTACHING PARTS.** Attaching parts are identified by (AP) after the nomenclature of the item in the description column. Attaching parts are listed immediately following the part they attach.

28. **SPECIAL HANDLING.** Items requiring special handling such as liquid oxygen components, magnetic control items or on-board liquid oxygen generating system (OBOGS) are identified by the acronym LOX for liquid oxygen, MAG for magnetic control items and OXYGEN for on-board liquid oxygen generating system (OBOGS) in the Description column, at the extreme right side.

29. **CONVERTED PART NUMBERS.** Some part numbers appear in the Part Number column which are different than the manufacturer's part number. These are converted part numbers. The unconverted manufacturer's part number is shown in the Description column following the manufacturer's code. Always use the part number in the Part Number column when ordering parts. If an item is not available under the listing in the Part Number column, it may be ordered using the unconverted part number found in the Description column or by using the number found on the part. Examples of special characters as they may appear in the Part Number and Description columns are shown below:

Part Number Column	Description Column
PORM	? (Plus or Minus)
DEG	° (Degree)
E	e (Lower case letter)
2	II (Roman Numeral)
0.001	.001 (Decimal)

30. **SUPERSEDED PARTS.** Superseded part numbers have been removed from the Part Number column and placed in the Description column of the superseding part (for example-supersedes 74A582090-1003). This indicates that the superseded part is usable if available through salvage, but should not be requisitioned or made.

31. **REDESIGNED PARTS.** When the design of a part is changed to the extent that interchangeability is affected, the new part number will state in the description column, Replaces 74AXXXXX-XXXX. If the old part has continued application it will remain in the part number column following the new part. Usable on codes will be used to

show usability. In addition the explanatory notes ("Use until exhausted") for procurable parts and (Replaced by XXXXX) for nonprocureable parts will be in the description column of the old part.

32. NEXT HIGHER ASSEMBLY. Next higher assembly (NHA) data is not shown using indention. Next higher procurable assembly (NHPA) data is shown for part numbers that have a procurable NHA. The NHPA and its assigned Source, Maintenance and Recoverability (SM&R) code are in parentheses as the last entry in the Description column. Requisition the NHPA when the part listed in the Part Number column is not available from supply. The components of assemblies that require disassembly during removal from aircraft, are footnoted in the part number column.

33. UNITS PER ASSEMBLY COLUMN

(UPA). This column lists the total number of each part required per assembly or subassembly and are not necessarily the total number used in the end item of equipment. The letters AR (As Required) are used for items such as shims when the requirement may vary.

34. USABLE-ON CODES. Applicable usable-on codes are identified on the final sheet of each parts list. No entry in the Use On column indicates parts are applicable to all configurations supported by this parts list.

35. ALTERNATE OR EQUIVALENT PARTS. An asterisk (*), in the Use On column, identifies alternate parts or equivalent parts that are interchangeable. When a letter code is followed by an asterisk in the Use On column, only the parts with the same let-

ter code are interchangeable. An alternate part may be used when preferred part is not available. The asterisk is omitted for the preferred part(s). Equivalent parts are fully interchangeable. No equivalent part is preferred over another. All equivalent parts are identified by asterisks.

36. SOURCE, MAINTENANCE AND RECOVERABILITY (SM&R) CODE COLUMN. The codes used in this column are assigned per NAVAIRINST 4423.3 SERIES and NAVSUPINST 4423.14 SERIES which contain definitions. A dash (-) is shown in the SM&R code column when no code has been assigned. The Aviation Supply Office P2300 series publication is to be used for the most current SM&R Code assignment information if doubt exists as to the validity of any SM&R Code listed in an IPB. Refer to figure 1 for SM&R code explanations.

37. PARTS LIST INDEX MANUAL, A1-F18AC-IPB-450. This manual has a numerical index of part numbers and a reference designation index for use with aircraft organizational maintenance manuals. When reference designations or part numbers are known, the index locates specific maintenance instructions and parts data.

38. NAVY (AN) STANDARD/COMMON NAME NOMENCLATURE.

39. When an item has both Navy (AN) standard and common name nomenclature assigned, the common name nomenclature will be used in text and on illustrations. Full Navy (AN) standard nomenclature will be used in the Illustrated Parts Breakdown (IPB).

SOURCE (D012)				MAINTENANCE			
1st POSITION		2nd POSITION		3rd POSITION		4th POSITION	
P	PROCURE	A	REPLENISH	O	REPLACE OR USE AT ORGANIZATIONAL LEVEL	Z	NO REPAIR (CONSUMABLE)
		B	INSURANCE				
		C	CURE-DATED				
		D	INITIAL	F	REPLACE OR USE AT IMA LEVEL	B	RECONDITION BY ADJUSTMENT, CALIBRATION, LUBRICATION, PLATING, ETC.
		E	END ITEM GSE/STOCKED	H			
		F	GSE/NOT STOCKED	G			
K	REPAIR KIT COMPONENT	F	ORG/IMA	L	REPLACE OR USE AT SPECIALIZED IMA	O	REPAIR AT ORGANIZATIONAL LEVEL
		D	DEPOT				
		B	BOTH KITS				
M	MANUFACTURE	O	ORGANIZATIONAL	D	REPLACE OR USE AT DEPOT	F	REPAIR AT IMA LEVEL
A	ASSEMBLE	F	AFLOAT			H	
		H	ASHORE			G	
		G	BOTH			L	REPAIR AT SPECIALIZED IMA
X	MISC	D	DEPOT			D	REPAIR AT DEPOT OR COMMERCIAL
		A	REQUEST NHA	Z	NOT REQUIRED THIS APPLICATION	D	REPAIR AT DEPOT OR COMMERCIAL
		B	OBTAIN FROM SALVAGE OR ONE TIME BUY				
		C	DIAGRAMS-SCHEMATICS, INSTALL DWGS				

RECOVERABILITY (D013C)		SERVICE OPTION (D012A)	
5th POSITION		6th POSITION	
O	REPAIRABLE ITEM. CONDEMN AT ORGANIZATIONAL LEVEL.	1 2 3	APPLIES TO ENGINES ONLY. IDENTIFIES THE HIGHEST (1) TO LOWEST (3) LEVEL OF MAINTENANCE WHICH CAN REPLACE (3rd POSITION OF SM&R CODE) THE ITEM.
F H G	REPAIRABLE ITEM. CONDEMN AT INTERMEDIATE LEVEL INDICATED.	4 5 7	SAME AS ABOVE. IN ADDITION, ITEM IS A FLR WITH A UNIT COST OF OVER \$5000. THESE CODES ARE NO LONGER ASSIGNED TO NEW, NON-FAMILY RELATED ITEMS.
L	REPAIRABLE ITEM. CONDEMN AT SPECIALIZED INTERMEDIATE LEVEL.	6	NORMALLY PROCURED AND STOCK NUMBERED BUT ORGANIC CAPABILITY EXISTS FOR EMERGENCY STOP-GAP REQUIREMENTS.
		E	END-TO-END TEST REQUIRED BY IMA PRIOR TO BCM ACTION.
D	REPAIRABLE ITEM. CONDEMN AT DEPOT OR CONTRACTOR FACILITY.	J	FLR OR CONSUMABLE ITEM. CHANGE 5th POSITION SM&R CODE TO "D" UNDER PICA/SICA. NAVAIR APPROVAL REQUIRED.
		8	SAME AS "J" ABOVE EXCEPT USED FOR ENGINES ONLY. APPLIES TO 2nd LEVEL OF IMA.
A	SPECIAL HANDLING REQUIRED. CONTACT ITEM MANAGER FOR DISPOSAL INSTRUCTIONS.	9	SAME AS "J" ABOVE EXCEPT USED FOR ENGINES ONLY. APPLIES TO 3rd LEVEL OF IMA.
		M	ITEM IS A FLR WITH A UNIT COST OF OVER \$5000. THESE CODES ARE NO LONGER ASSIGNED TO NEW, NON-FAMILY RELATED ITEMS.
Z	NON-REPAIRABLE ITEM. CONDEMN AT LEVEL IN 3rd POSITION.	N	ASSIGNED TO XB SOURCE CODE AND INDICATES ITEM IS PROCURED LOCALLY. NOT STOCKED IN THE SUPPLY SYSTEM.
		T	ASSIGNED TO TRAINING DEVICES WITH SOURCE CODE OF "PD". INDICATES ITEM IS NOT A PROCURABLE SPARE. NSN IS ASSIGNED ONLY TO PERMIT VISIBILITY OF REPAIR PART RELATIONSHIP.

(INTRO-1)07-CAT1

Figure 1. SM&R Code Explanation

ORGANIZATIONAL MAINTENANCE
SYSTEM MAINTENANCE WITH IPB
RADIO RECEIVER R-1379()/ARA-63 (74REB001)
INSTRUMENT LANDING SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Data Link, Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-200
Instrument Landing System Testing - Built-In Test	WP003 00

Alphabetical Index

Subject	Page No.
Connector Sealing	2
Materials Required	2
Support Equipment Required	2
Illustrated Parts Breakdown	3
Illustration	4
Parts List	6
Parts List	6
Radio Receiver R-1379()/ARA-63 (74REB001), Figure 1	4
Removal and Installation	2
Installation	2
Materials Required	2
Parts List	6
Removal	2
Support Equipment Required	2

Record of Applicable Technical Directives

None

1. REMOVAL AND INSTALLATION.

Support Equipment Required list

None

Materials Required

None

2. REMOVAL.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Open door 3 (A1-F18AC-LMM-010).
- c. Disconnect connectors (6, 7, and 8, figure 1).
- d. Disconnect KU-Band Waveguide Assembly from receiver (3) by removing four screws (9), and four washers (10).
- e. Separate KU-Band Waveguide Assembly from receiver (3).
- f. Support receiver (3) and remove four screws (1) and four washers (2).
- g. Remove receiver (3).

3. INSTALLATION.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Inspect R-1379/ARA-63 Electrical Equipment Mounting Base and resilient-vibration mount for integrity. If replacement is required, refer to WP007 00.
- c. Prepare mating surfaces for electrical bonding (A1-F18AC-LMM-000).
- d. Secure receiver (3, figure 1) to R-1379/ARA-63 Electrical Equipment Mounting Base with four screws (1) and four washers (2).
- e. Apply sealant to four screws (1) and four washers (2) (A1-F18AC-LMM-000).
- f. Connect connectors (6 and 7) and seal. Refer to CONNECTOR SEALING, this WP.

g. Secure KU-Band Waveguide Assembly to receiver (3) with four washers (10) and four screws (9).

h. Connect connector (8).

i. Close door 3 (A1-F18AC-LMM-010).

j. Do Instrument Landing System Built-In Test (A1-F18AC-630-200, WP003 00).

4. CONNECTOR SEALING.

Support Equipment Required

None

Materials Required list

NOTE

Alternate item specifications or part numbers are listed in parentheses.

Specification or Part Number	Nomenclature
MMS-409 (CAGE 76301)	Cleaning Compound
EC-1252 (CAGE 04963)	Sealing Compound
CCCC440TY1CL1 (CAGE 81348) (301)	Cheesecloth (Rymplecloth)

WARNING

Cleaning compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

- a. Clean area to which sealing compound is to be applied with clean cheesecloth wetted by cleaning compound MMS-409.

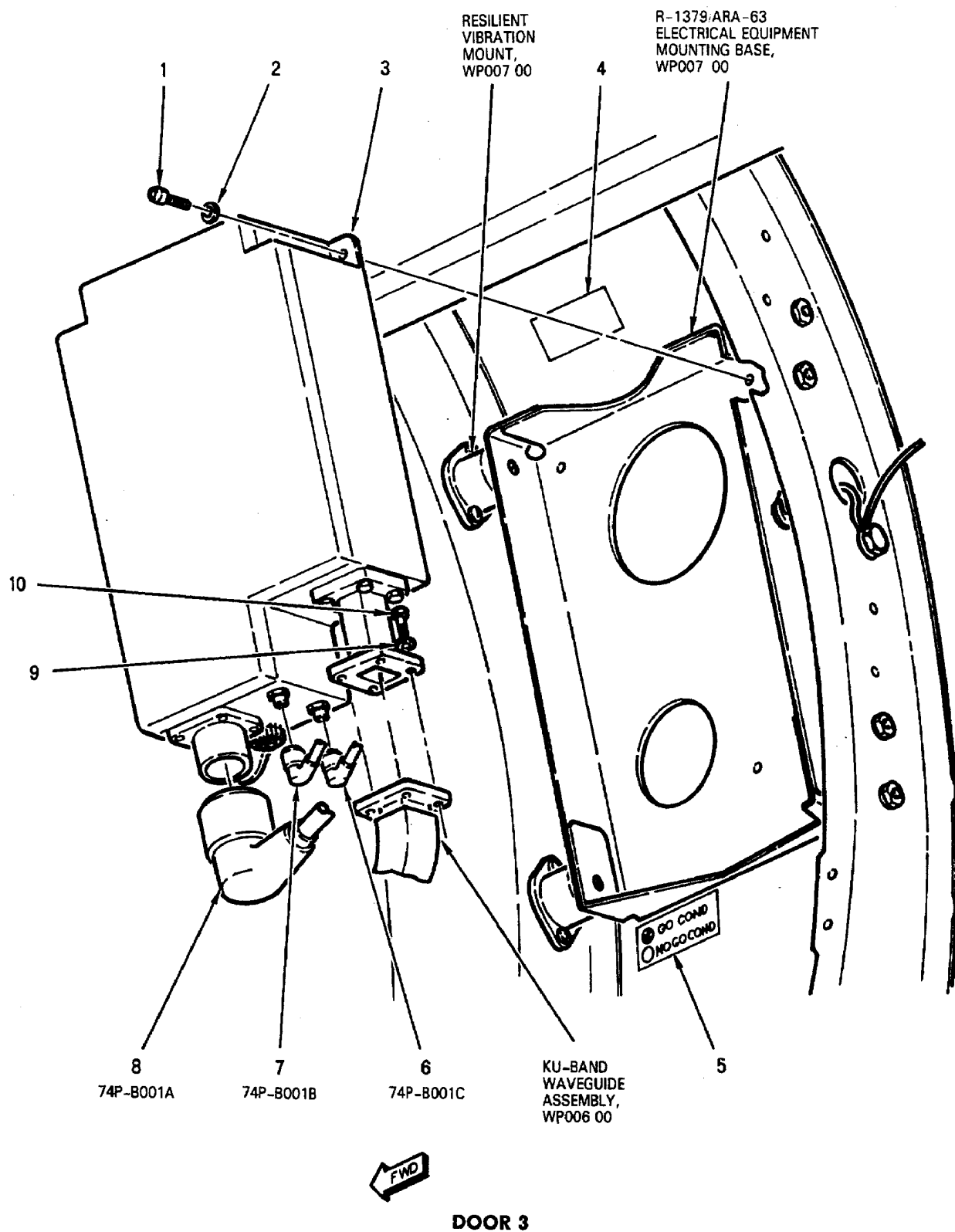
NOTE

Sealing compound curing time is a minimum of 6 hours at room temperature.

b. Apply sealing compound EC-1252 to connectors (74P-B001B and 74P-B001C, figure 1, sheet 2).

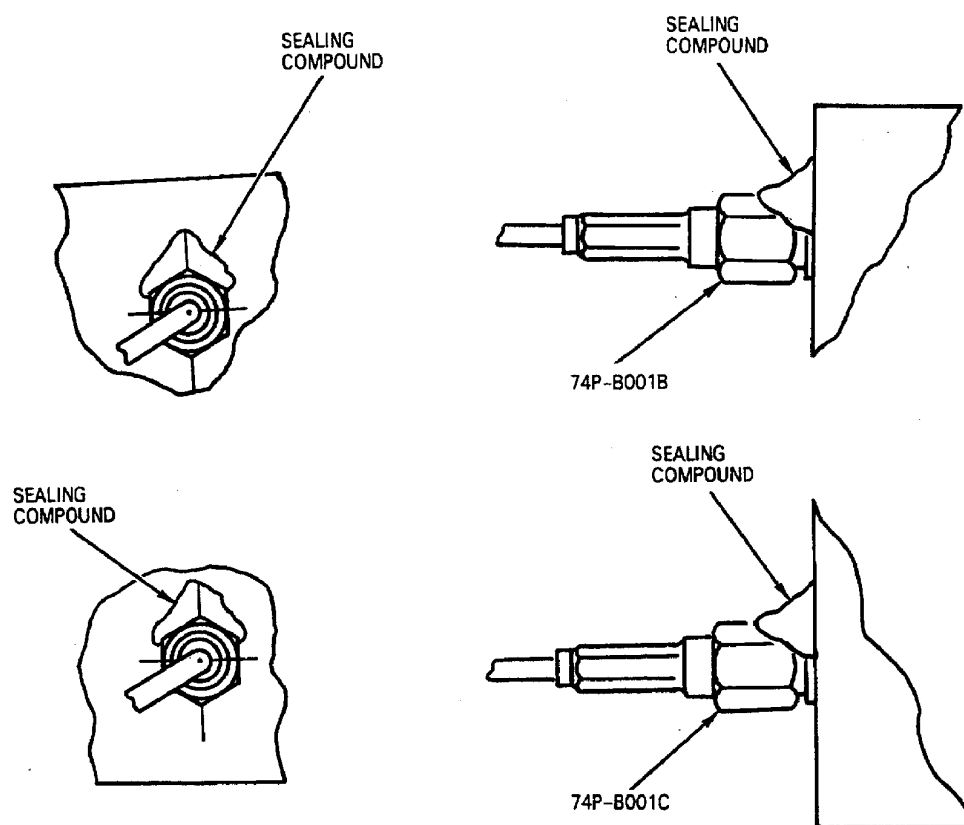
5. ILLUSTRATED PARTS BREAKDOWN.

6. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



18AC-630-30-2(2-1)09

Figure 1. Radio Receiver R-1379()/ARA-63 (74REB001) (Sheet 1)



18AC-630-30-2(2-2)A

Figure 1. Radio Receiver R-1379()/ARA-63 (74REB001) (Sheet 2)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RADIO RECEIVER R-1379()/ARA-63									
		(74REB001)									
1	NAS1351-3-10P	.	SCREW	.....					4	A	PAOZZ
	NAS1351-3-12P	.	SCREW	.....					4	B	PAOZZ
2	NAS620A10	.	WASHER	.....					4		PAOZZ
3	01A223024A21-11	.	RECEIVER, RADIO R-1379A/ARA-63						1	*	PAOGD
			(98738) (74REB001) MATCHED								
			COMPONENT: MUST BE USED WITH								
			KY-651A/ARA-63 PULSE DECODER)								
	R-1379A/ARA-63	.	SEE ABOVE (80058)	.....					1	*	PAOGD
	01A223024A21-12	.	RECEIVER, RADIO R-1379B/ARA-63						1	*	PAOGD
			(98738) (74REB001) (MATCHED								
			COMPONENT MUST BE USED WITH								
			KY-651B/ARA-63 OR KY651C/ARA-63								
			PULSE DECODER)								
	R-1379B/ARA-63	.	SEE ABOVE (80058)	.....					1	*	PAOGD
4	74A890007-2001	.	PLATE, IDENTIFICATION - NOSE						1		MDOZZ
			EQUIP (76301)								
5	74A890009-2037	.	PLATE, IDENTIFICATION - BAY 3R						1		MDOZZ
			(76301)								
6	M39012-56-4502	.	CONNECTOR, PLUG (74P-B001C)						1		PAOZZ
7	M39012-56-4502	.	CONNECTOR, PLUG (74P-B001B)						1		PAOZZ
8	M81511-56WD01S1	.	CONNECTOR, PLUG (74P-B001A)						1		PAOZZ
9	MS16995-17	.	SCREW						4		PAOZZ
10	MS35338-136	.	WASHER						4		PAOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

CODE	USABLE ON	MODEL
A	161353 THRU 163161	F/A-18A/B
B	163162 AND UP	F/A-18A/B

Figure 1. Radio Receiver R-1379()/ARA-63 (74REB001) (Sheet 3)

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****PULSE DECODER KY-651()/ARA-63
(74A-F002)****INSTRUMENT LANDING SYSTEM**

This WP supersedes WP004 00 dated, 1 September 1992.

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Data Link, Instrument Landing, and Radar Beacon System	A1-F18AC-630-200
Instrument Landing System Testing - Built-In Test	WP003 00

Alphabetical Index

Subject	Page No.
Glide Slope Adjustment Switch, Figure 2	6
Illustrated Parts Breakdown	2
Illustration	3
Parts List	4
Parts List	4
Pulse Decoder KY-651()/ARA-63 (74A-F002), Figure 1	3
Removal and Installation	2
Installation	2
Materials Required	2
Parts List	4
Removal	2
Support Equipment Required	2

Record of Applicable Technical Directives

None

1. REMOVAL AND INSTALLATION.

Support Equipment Required

Part Number or Type Designation	Nomenclature
-	Torque Wrench, 0 to 75° Inch-Pounds

Materials Required

None

2. REMOVAL.

- Make sure electrical power is off (A1-F18AC-LMM-000).
- Open door 13R (A1-F18AC-LMM-010).
- Disconnect connectors (8, 9, 10, and 11, figure 1).
- Remove two bolts (12) and two washers (13) holding support assembly (2) to equipment bay shelf.
- Remove pulse decoder (5).
- On 161353 THRU 161965, remove support assembly (2) from pulse decoder (6) by removing four screws (14), four nuts (6), and eight washers (7).
- On 161966 AND UP, remove support assembly (2) from pulse decoder (5) by removing four screws (14), four nuts (6), and four washers (7).

3. INSTALLATION.

NOTE

Make sure corrosion preventive treatment of fasteners and attaching parts is done during installation (A1-F18AC-LMM-000).

- Make sure electrical power is off (A1-F18AC-LMM-000).

b. On pulse decoder (5, figure 1), set glide slope adjustment (figure 2) to 3.0.

c. If contact strip (17) has three or more broken contact fingers, refer to Radio Frequency Grounding Contact Strip (A1-F18AC-LMM-000).

d. Prepare mating surfaces for electrical bonding (A1-F18AC-LMM-000).

e. On 161353 THRU 161965, secure support assembly (2, figure 1) to pulse decoder (6) with four screws (14), eight washers (7), and four nuts (6). Torque screws to 55 to 60 inch-pounds.

f. On 161966 AND UP, secure support assembly (2, figure 1) to pulse decoder (5) with four screws (14), four washers (7) and four nuts (6). Place washer under nut. Torque screws to 55 to 60 inch-pounds.

g. Apply sealant to screws (14), and nuts (6) (A1-F18AC-LMM-000).

h. Position pulse decoder (5) and support assembly (2) in slide rail and slide support assembly inboard to engage pins (15) in alignment guides.

i. Secure support assembly (2) to equipment bay shelf with two washers (13) and two bolts (12).

j. Connect connectors (8, 9, 10, and 11).

k. Close door 13R (A1-F18AC-LMM-010).

l. Do Instrument Landing System Built-In Test (A1-F18AC-630-200, WP003 00).

4. ILLUSTRATED PARTS BREAKDOWN.

5. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

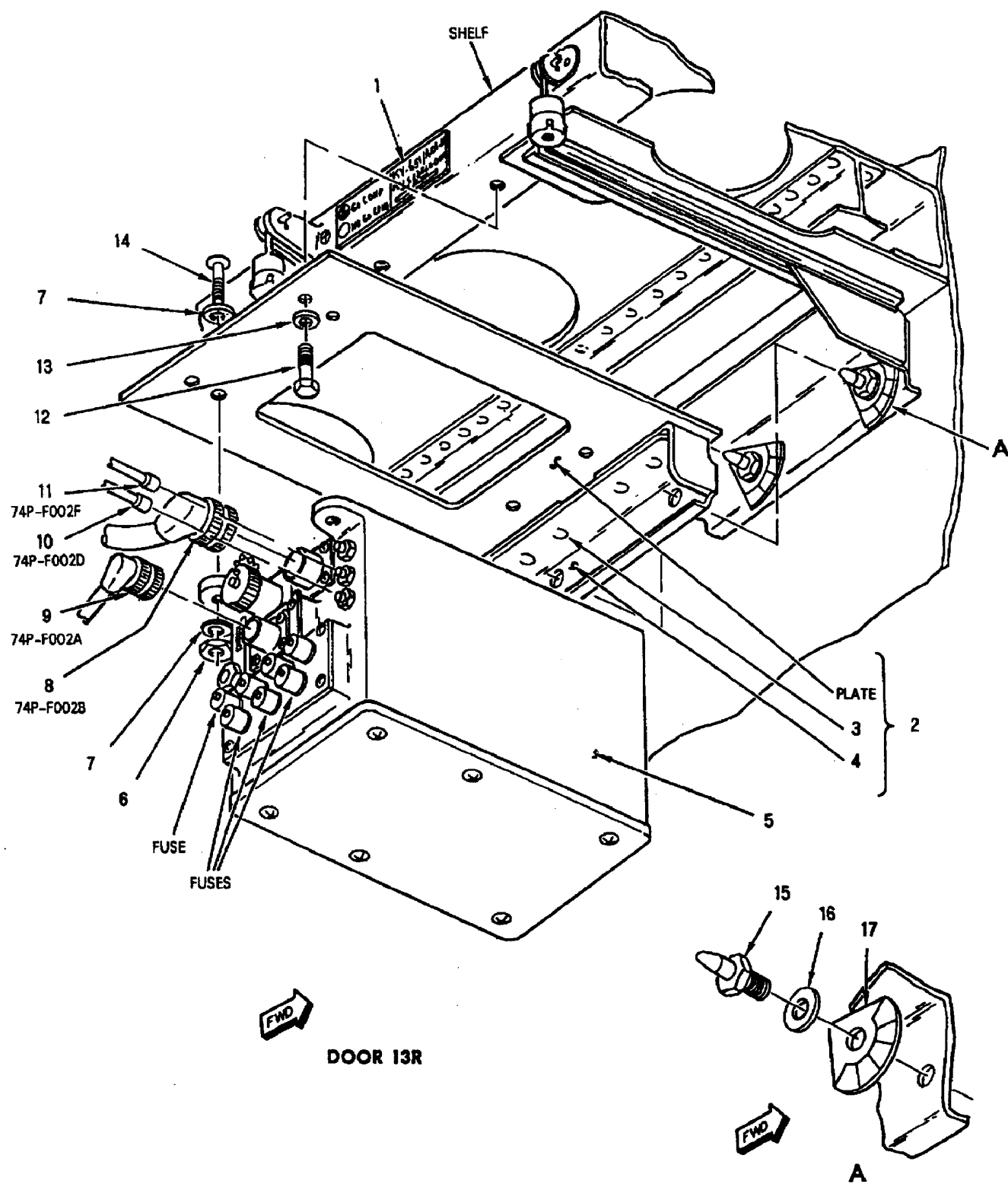


Figure 1. Pulse Decoder KY-651()/ARA-63(74A-F002) (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		PULSE DECODER KY-651()/ARA-6-3									
		(74A-P002)									
1	74A890009-2049	.	PLATE, IDENTIFICATION - BAY 3R						1		MDOZZ
		(76301)									
2	74A880638-1003	.	SUPPORT ASSEMBLY - PULSE						1	A	XBOOO
		DECODER, ARA-63 (76301)									
	74A880638-1005	.	SEE ABOVE (76301)						1	B	XBOOO
3	HLT311TB-5-3	.	PIN, RIVET (73197) (MCDONNELL						4	*	PAOZZ
		SPEC ST3M758V08-3)									
	AIC-L-758V08-3	.	SEE ABOVE (06725)						4	*	PAOZZ
	HLT311DL-5-3	.	SEE ABOVE (92215)						4	*	PAOZZ
	SW1000-5M	.	COLLAR, PIN (73197) (MCDONNELL						4		PAOZZ
		SPEC ST3M526C08M) (USE WITH INDEX 5)									
4	74A880638-2003	.	BRACKET (76301)						1		MDOZZ
5	01A223000A21-11	.	DECODER, PULSE KY-651A/ARA						1	*	PAOGD
		63 (98738) (74A-F002) (MATCHED COMPONENT MUST BE USED WITH R-1379A/ARA-63 RADIO RECEIVER)									
	RY651A/ARA63	.	SEE ABOVE (80058)						1	*	PAOGD
	395190-1	.	SEE ABOVE (00752)						1	*	PAOGD
	GD5736	.	SEE ABOVE (70117)						1	*	PAOGD
	01A223000A21-12	.	DECODER, PULSE KY-65B/ARA-63						1	*	PAOGD
		(MATCHED COMPONENT MUST BE USED WITH R-1379B/ARA-63 RADIO RECEIVER)									
	RY651BARA63	.	SEE ABOVE (80058)						1	*	PAOGD
	01A223000A23-11	.	DECODER, PULSE KY-651C/ARA						1	*	PAOGD
		63 (80058) (MATCHED COMPONENT MUST BE USED WITH R-1379B/ARA-63 RADIO RECEIVER)									
	KY651CARA63	.	SEE ABOVE (80058)						1	*	PAOGD
	GD5736-2	.	SEE ABOVE (70117)						1	*	PAOGD
6	NAS1291C3M	.	NUT						4		PAOZZ
7	NAS620C10L	.	WASHER						4	A	PAOZZ
	UAS620C10L	.	WASHER						8	B	PAOZZ
8	M81511-56WD01P1	.	CONNECTOR, PLUG (74P-P002B)						1		PAOZZ
9	M81511-56WD01S3	.	CONNECTOR, PLUG (74P-P002A)						1		PAOZZ
10	M39012-55-4502	.	CONNECTOR, PLUG (74P-F002D)						1		PAOZZ
11	M39012-55-4502	.	CONNECTOR, PLUG (74P-F002F)						1		PAOZZ
12	NAS673V3	.	BOLT						2		PAOZZ
13	AN960C10L	.	WASHER						2		PAOZZ
14	HT4024L3-3	.	SCREW (73197) (MCDONNELL SPEC						4	A	PAOZZ
		ST3M455-3L3-1)									
	NAS1352-3-10P	.	SCREW						4	B	PAOZZ
15	VS3258C4A2-4	.	PIN, SHOULDER, HEADLESS						2	*	PAOZZ
		(92215) (MCDONNELL SPEC 3M943C4A2-4)									
	AAP139C4A2-4	.	SEE ABOVE (84256)						2	*	PAOZZ
	D792684C2N4	.	SEE ABOVE (08524)						2	*	PAOZZ
	11415C4A2-4	.	SEE ABOVE (59563)						2	*	PAOZZ
16	4M36-02014	.	WASHER (76301)						2		PAOZZ
17	869-28	.	CONTACT STRIP, RADIO FREQUENCY ...						2		PAOZZ
		GROUNDING (30817) (MCDONNELL SPEC ST4M147-5A)									

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

Figure 1. Pulse Decoder KY-651()/ARA-63 (74A-F002) (Sheet 2)

A1-F18AC-630-300

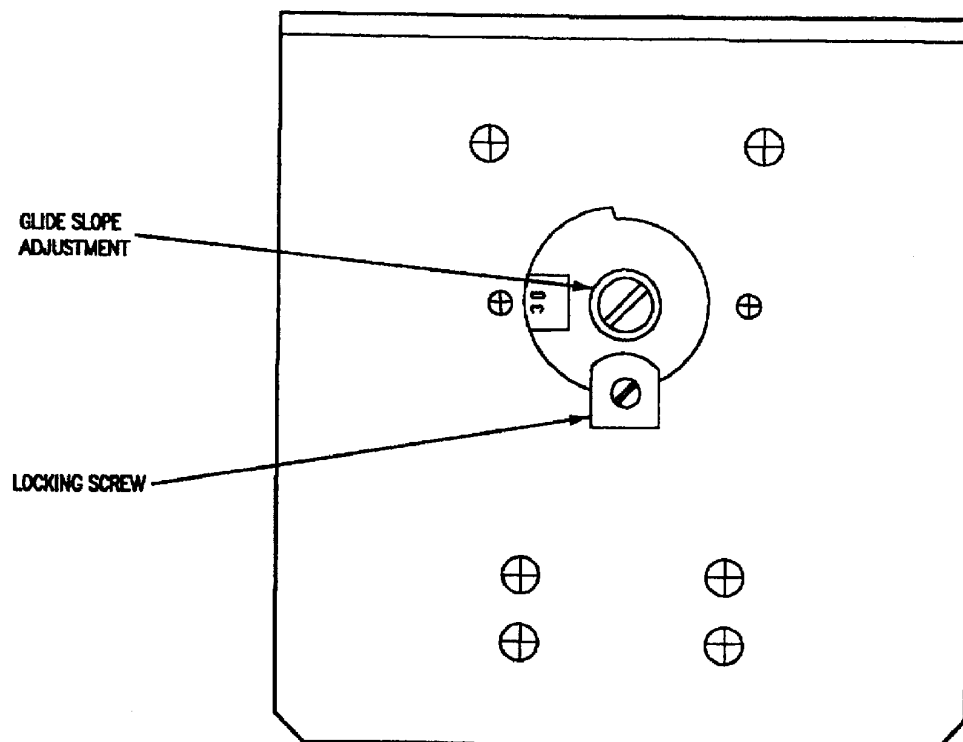
Change 1 - 1 January 1996

004 00

Page 5

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		CODE		USABLE ON				MODEL			
		A		161966 & UP				F/A-18A/B			
		B		161353 THRU 161985				F/A-18A/B			

Figure 1. Pulse Decoder KY-651()/ARA-63 (74A-F002) (Sheet 3)



PULSE DECODER KY-651()/ARA-63
(REAR VIEW)

Figure 2. Glide Slope Adjustment Switch

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

KU-BAND ANTENNA AS-3361/ARA-63
(74E-A011)

INSTRUMENT LANDING SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Structure Repair Manual	A1-F18AC-SRM-200
Sealant Preparation and Application	WP011 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	2
Illustration	3
Parts List	4
Installation	2
KU-Band Antenna AS-3361/ARA-63 (74E-A011), Figure 1	3
Materials Required	1
Parts List	4
Removal	2
Repair	2
Support Equipment Required	1

Record of Applicable Technical Directives

None

1. REMOVAL AND INSTALLATION.

Materials Required

Support Equipment Required

Specification or Part
Number

Nomenclature

None

MIL-S-8802
TY2CLB-1/2
(CAGE 81349)

Sealing Compound

Materials Required (Continued)**Specification or Part
Number****Nomenclature**

MS90064-12
(CAGE 96906)

Gasket

NOTE

A missing radome does not degrade antenna performance and is not reason for antenna replacement.

2. REMOVAL.

a. Do not replace antenna, with radome missing, if the dielectric insert is still bonded in place.

b. Visible cracks in antenna coating around perimeter of dielectric insert are acceptable.

c. Replace antenna if both radome and dielectric insert are missing.

d. Make sure electrical power is off (A1-F18AC-LMM-000).

e. Open door 3 (A1-F18AC-LMM-010).

f. Disconnect antenna (2, figure 1) from KU-Band Waveguide Assembly by removing four screws (4), four washers (5), and gasket (3).

g. Remove screws (6 and 7) from door 3.



Damage may occur if sealant is not removed before removing antenna from aircraft.

Damage may occur if metal tools are used to remove sealant.

h. Using non-metallic tool, remove sealant from around antenna (2).

i. Remove antenna (2).

3. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).



To prevent damage to antenna, do not allow cleaning solution to touch surface of antenna radome. Clean mating surface only.

b. Prepare mating surfaces for electrical bonding (A1-F18AC-LMM-000).

c. Secure antenna (2, figure 1) to door 3 with screws (6 and 7).

d. On inside of door 3, apply sealant to six screws (6) (A1-F18AC-LMM-000).

e. Insert gasket (3) into groove of antenna (2).

f. Connect antenna (2) to KU-Band Waveguide Assembly with four screws (4) and four washers (5).

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

g. On outside of door 3, apply butt seal around periphery of antenna (2), and on inside of door 3, apply fillet seal around periphery of antenna with sealing compound MIL-S-8802 TY2CLB-1/2 (A1-F18AC-SRM-200, WP011 00).

h. Close door 3 (A1-F18AC-LMM-010).

4. REPAIR.

5. Refer to NA 01-1A-022 for reconditioning.

6. ILLUSTRATED PARTS BREAKDOWN.

7. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

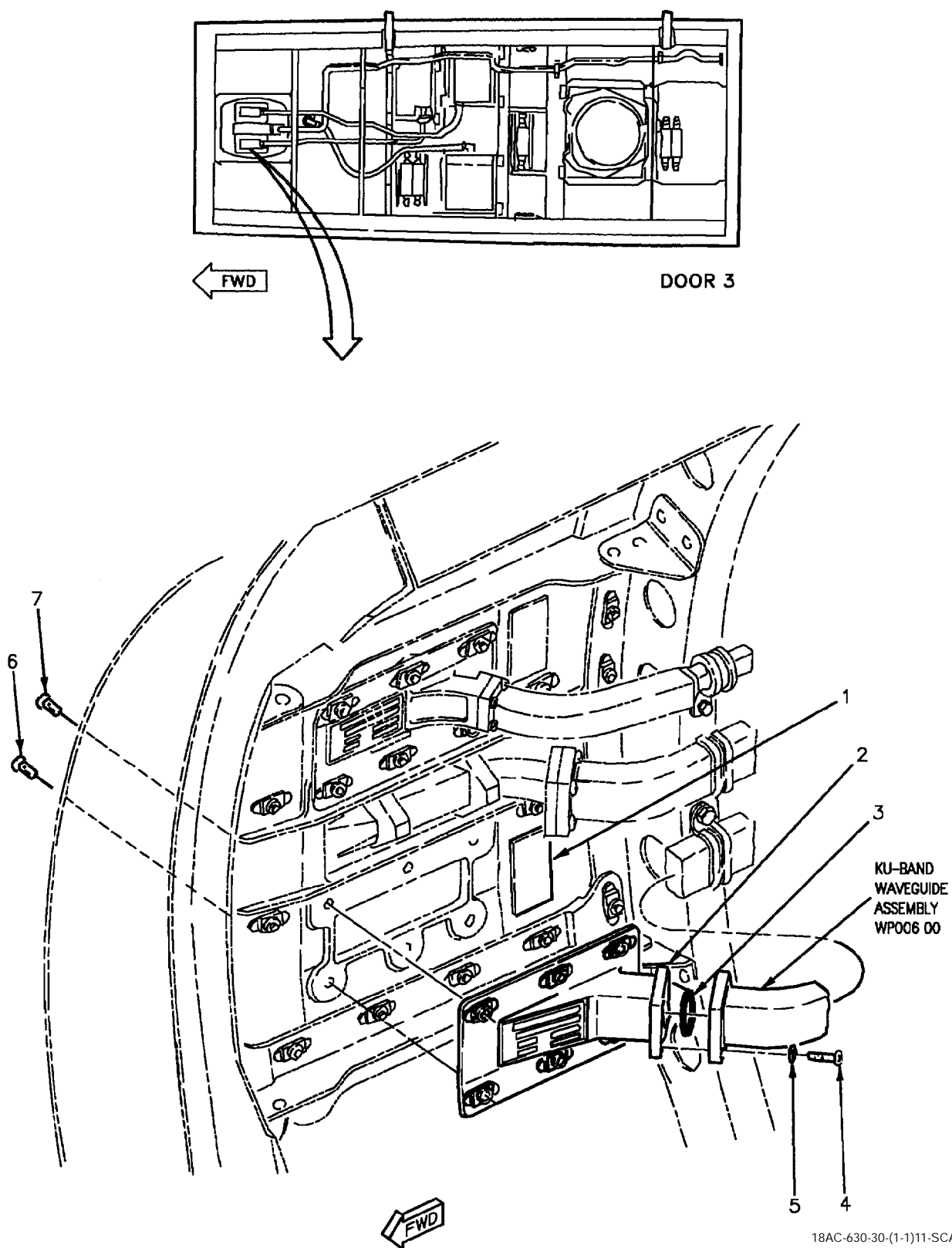


Figure 1. KU-Band Antenna AS-3361/ARA-63 (74E-A011) (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		KU-BAND ANTENNA AS-3361/ARA-63 (74E-A011)									
1	74A890054-2047	.	MARKER, IDENTIFICATION,						1		MDOZZ
			ANTENNA (76301)								
2	9C32500	.	ANTENNA, KU-BANDAS-3361/ARA-63						1	*	PAOBZ
			(KU-BAND ANTENNA AS-3361/ARA-63)								
			(82152) (MCDONNELL SPEC								
			74-870116-101) (74E-A011)								
	AS-3361/ARA-63	.	SEE ABOVE (80058)						1	*	PAOZZ
3	MS90064-12	.	GASKET (96906)						1		PAOZZ
4	MS16995-17	.	SCREW						4		PAOZZ
5	MS35338-136	.	WASHER						4		PAOZZ
6	NAS663V5UT	.	SCREW						3		PAOZZ
7	NAS663V4UT	.	SCREW						3		PAOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

Figure 1. KU-Band Antenna AS-3361/ARA-63 (74E-A011) (Sheet 2)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

KU-BAND WAVEGUIDE ASSEMBLY
(74W-B501)

INSTRUMENT LANDING SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Structural Repair, General Information	A1-F18AC-SRM-200
Adhesive, Cement and Sealant; Preparation and Application	WP011 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	3
Illustration	4
Parts List	6
Installation	2
KU-Band Waveguide Assembly (74W-B501), Figure 1	4
Materials Required	1
Parts List	6
Removal	1
Support Equipment Required	1

Record of Applicable Technical Directives

None

Support Equipment Required

Materials Required (Continued)

None

Specification or Part
Number

Nomenclature

Materials Required

MS90064-12
(CAGE 96906)

Gasket

Specification or Part
Number

Nomenclature

1. REMOVAL.

MIL-S-8802
TY2CLB-1/2
(CAGE 81349)
Sealing Compound

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door 3 (A1-F18AC-LMM-010).

c. Disconnect waveguide assembly (7, figure 1) from KU-Band Antenna AS-336/ARA-63 by removing four screws (5), four washers (6), and gasket (8).

d. Disconnect waveguide assembly (7) from Radio Receiver R-1379()/ARA-63 by removing four screws (5) and four washers (6).

e. Remove bolt (4), washer (3), spacer (1), and clamp (2) holding waveguide assembly (7) to door.

f. On 161353 THRU 161528, remove two bolts (9), two washers (10), and supports (11 and 12).

g. On 161702 THRU 161965, remove two bolts (9), two washers (10), two nuts (13), and supports (11 and 12).



Metal tools must not be used for removing sealant. The structure may be scratched, resulting in oxidation.

h. On 161966 AND UP, remove fume seal using a nonmetallic tool.

i. On 161966 AND UP, remove clamps (14) and (15) and attaching parts.

To prevent damage to waveguide assembly, make sure that rigid section of waveguide assembly is not bent or damaged while removing.

j. Slide waveguide assembly (7) forward and work flange through rib of door.

k. Remove waveguide assembly (7).

2. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).



To prevent damage to waveguide assembly, make sure that rigid section of waveguide assembly is not bent or damaged while installing.

b. Carefully work waveguide assembly (7, figure 1) through opening in rib.

c. Slide waveguide assembly (7) aft.

d. Secure waveguide assembly (7) to Radio Receiver R-1379()/ARA-63 with four screws (5) and four washers (6).

e. On 161353 THRU 161528, secure waveguide assembly (7) to rib with supports (11 and 12), two bolts (9), and two washers (10).

f. On 161702 THRU 161965, secure waveguide assembly (7) to rib with supports (11 and 12), two bolts (9), two washers (10), and two nuts (13).

g. On 161966 AND UP, secure waveguide assembly (7) with clamps (14) and (15) and attaching parts.

h. Secure waveguide assembly (7) to rib with clamp (2), spacer (1), bolt (4), and washer (3).

i. Insert gasket (8) into groove in KU-Band Antenna AS-3361/ARA-63.

j. Secure waveguide assembly (7) to KU-Band Antenna AS-3361/ARA-63 with four screws (5) and four washers (6).

WARNING

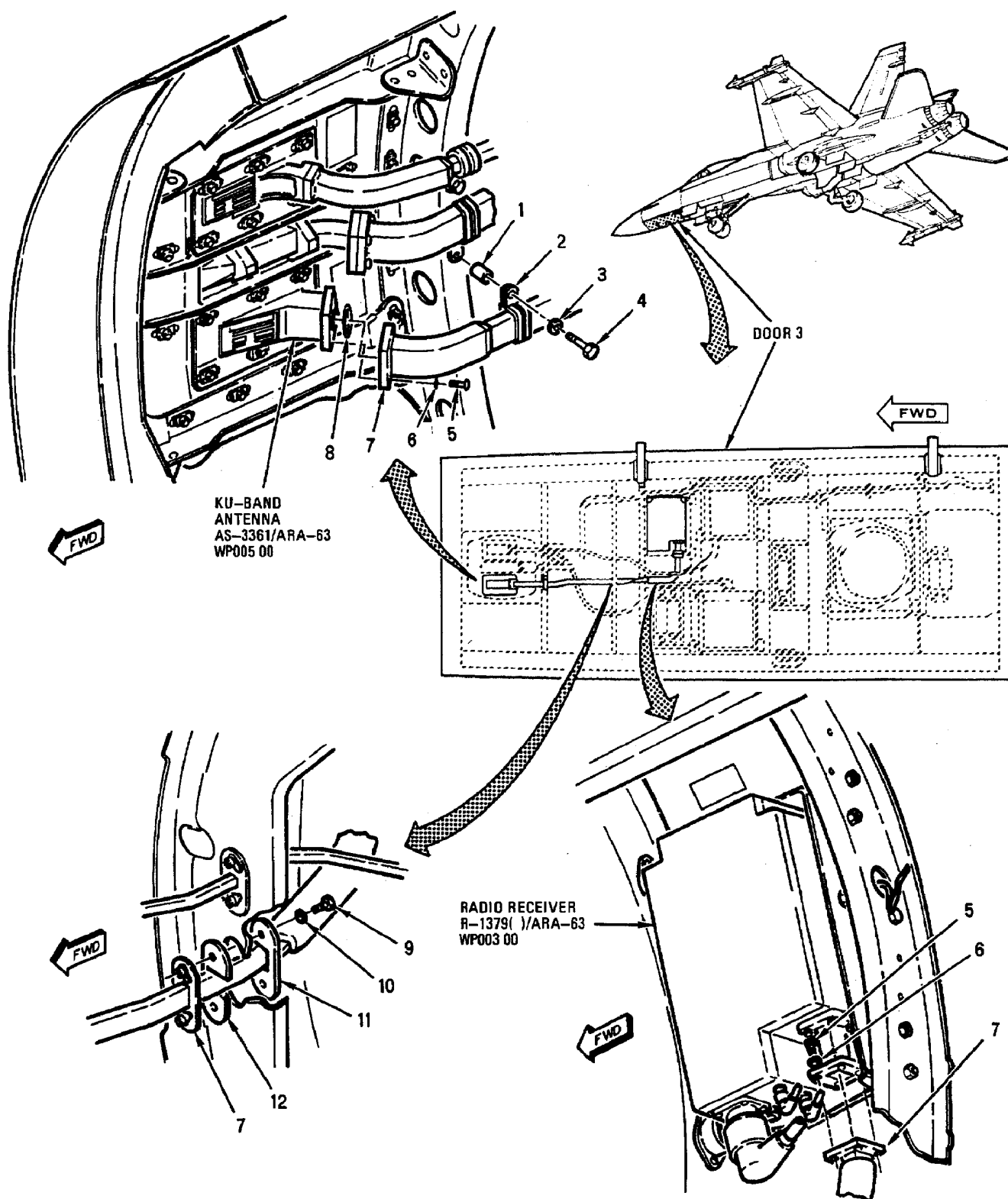
Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

k. On 161966 AND UP, apply fume seal using MIL-S-8802 TY2CLB-1/2 and MIL-S-8802 TY2CLA-1/2 sealants (A1-F18AC-SRM-200, WP011 00).

l. Close door 3 (A1-F18AC-LMM-010).

3. ILLUSTRATED PARTS BREAKDOWN.

4. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



161353 THRU 161528

18AC-630-30-(4-1)B

Figure 1. KU-Band Waveguide Assembly (74W-B501) (Sheet 1)

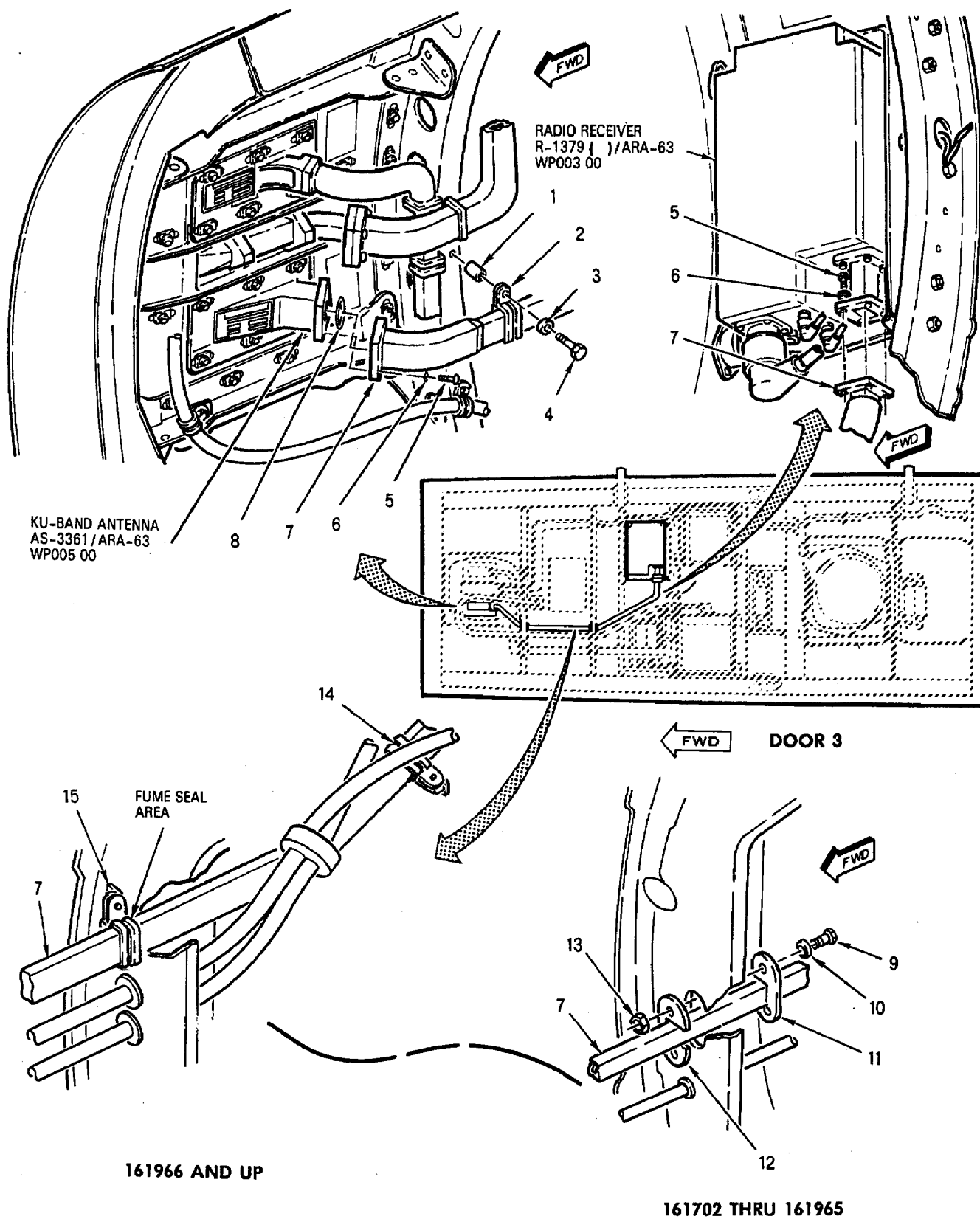


Figure 1. KU-Band Waveguide Assembly (74W-B501) (Sheet 2)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		KU-BAND WAVEGUIDE ASSEMBLY									
		(74W-B501)									
1	NAS42DD6-32	.	SPACER	.....					1	A	PAOZZ
	NAS42D06-12	.	SPACER	.....					1	B	PAOZZ
2	NAS1712D7-12N	.	CLAMP	.....					1		PAOZZ
3	AN960JD10L	.	WASHER	.....					1		PAOZZ
4	NAS673V8	.	BOLT	.....					1	A	PAOZZ
	NAS673V3	.	BOLT	.....					1	B	PAOZZ
5	MS16995-17	.	SCREW	.....					8		PAOZZ
6	MS35338-138	.	WASHER	.....					8		PAOZZ
7	TRFT57030-1	.	WAVEGUIDE ASSEMBLY, ARA-63	.....					1	A	PAOZZ
			(KU-BAND WAVEGUIDE ASSEMBLY)								
			(87864) (MCDONNELL SPEC								
			74J888000-101)								
	TRFT57031	.	SEE ABOVE (MCDONNELL SPEC	.....					1	B	PAOZZ
			74J888000-103)								
8	MS90064-12	.	GASKET (96906)	.....					1		PAOZZ
9	NAS673V6	.	BOLT (AFT SIDE)	.....					2	A	PAOZZ
	NAS673V3	.	BOLT (AFT SIDE)	.....					2	C	PAOZZ
10	AN960JD10L	.	WASHER	.....					2	E	PAOZZ
11	74A880660-2001	.	SUPPORT (76301)	.....					1	A	MDOZZ
	74A880609-1001	.	SUPPORT (76301)	.....					1	C	AGOOO
	74A880609-2005	.	SPACER (76301) (USE WITH	.....					1	C	MGOZZ
			74A880609-1001)								
	NAS1097AD3 #	.	RIVET (AP)	.....					2	C	-
	74A880609-2003	.	SUPPORT (76301) (USE WITH	.....					1	C	MGOZZ
			74A880609-1001)								
12	74A880609-2005	.	SUPPORT (76301)	.....					1	A	MGOZZ
	74A880609-2001	.	SUPPORT (76301)	.....					1	C	MGOZZ
13	NAS1291C3M	.	NUT	.....					2	C	PAOZZ
14	NAS1712D7-12N	.	CLAMP	.....					1	D	PAOZZ
	NAS673V3	.	BOLT (AP)	.....					1		PAOZZ
	AN960JD10L	.	WASHER (AP)	.....					1		PAOZZ
15	NAS1712D12-7N	.	CLAMP	.....					1	D	PAOZZ
	NAS673V3	.	BOLT (AP)	.....					1		PAOZZ
	AN960JD10L	.	WASHER (AP)	.....					1		PAOZZ
	NAS42DD6-20	.	SPACER (AP)	.....					1		PAOZZ

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

CODE	USABLE ON	MODEL
A	161353 THRU 161528	F/A-18A/B
B	161702 & UP	F/A-18A/B
C	161702 THRU 161965	F/A-18A/B
D	161966 & UP	F/A-18A/B
E	161353 THRU 161965	F/A-18A/B

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

R-1379/ ARA-63 ELECTRICAL EQUIPMENT MOUNTING BASE
PART NO. 74A880642

RESILIENT-VIBRATION MOUNT PART NO.
23914-2, T22-X22-2, HT01241-2, 23914H2, UT01243-2, 23914U2A

INSTRUMENT LANDING SYSTEM

Reference Material

Line Maintenance Procedures A1-F18AC-LMM-000
Data Link, Instrument Landing, and Radar Beacon Systems A1-F18AC-630-300
Radio Receiver R-1379()/ARA-63 WP003 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	3
Illustration	4
Parts List	5
Parts List	5
Resilient-Vibration Mount	2
Installation	3
Materials Required	2
Parts List	5
Removal	2
Support Equipment Required	2
R-1379/ARA-63 Electrical Equipment Mounting Base	2
Installation	2
Materials Required	2
Parts List	5
Removal	2
Support Equipment Required	2
R-1379/ARA-63 Electrical Equipment Mounting Base and Resilient-Vibration Mount, Figure 1	4

Record of Applicable Technical Directives

None

1. R-1379/ARA-63 ELECTRICAL EQUIPMENT MOUNTING BASE.



Support Equipment Required

None

Materials Required

None

2. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove Radio Receiver R-1379()/ARA-63 (WP003 00).

c. Disconnect lead (4, figure 1) by removing nut (3), two washers (2), and screw (1).



To prevent damage to mount, drive pin punch must be used to keep shaft from rotating when removing mounting base.

e. Remove attaching parts securing mount (7) to mounting base (19).

f. Remove mounting base (19).

3. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Inspect four mounts (7, figure 1) for integrity. If mounts are to be removed, refer to RESILIENT-VIBRATION MOUNT, this WP.

c. Prepare mating surfaces of mounting base (19) for electrical bonding (A1-F18AC-LMM-000).

To prevent damage to mount, drive pin punch must be used to keep shaft from rotating when installing mounting base.

d. Insert drive pin punch into shaft of mount (7).

e. Secure mounting base (19) to four mounts (7) with attaching parts.

f. Secure lead (4) to mounting base (19) with screw (1), two washers (2), and nut (3).

g. Apply sealant to screw (1), two washers (2), lead (4), and nut (3) (A1-F18AC-LMM-000).

h. Install Radio Receiver R-1379()/ARA-63 (WP003 00).

4. RESILIENT-VIBRATION MOUNT.

Support Equipment Required

None

Materials Required

None

5. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove Radio Receiver R-1379()/ARA-63 (WP003 00).

c. Remove mounting base (19, figure 1). Refer to R-1379/ARA-63 ELECTRICAL EQUIPMENT MOUNTING BASE, this WP.

d. On mount (7), aft of mounting base (19), remove two screws (6), shim (8), two washers (9), and two nuts (10).

e. Remove mount (7).

f. On mount (7), forward of mounting base (19), remove two screws (6) and shim (8) from mount (7).

g. Remove mount (7).

6. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

NOTE

When installing mounts, make sure drive pin hole in mount is facing up.

b. Position aft mount (7, figure 1) and shim (8) over mounting holes and secure with two screws (6), two washers (9), and two nuts (10).

c. Apply sealant around mount (7), two screws (6), two washers (9), and two nuts (10) (A1-F18AC-LMM-000).

d. Position forward mount (7) and shim (8) over mounting holes and secure with two screws (6).

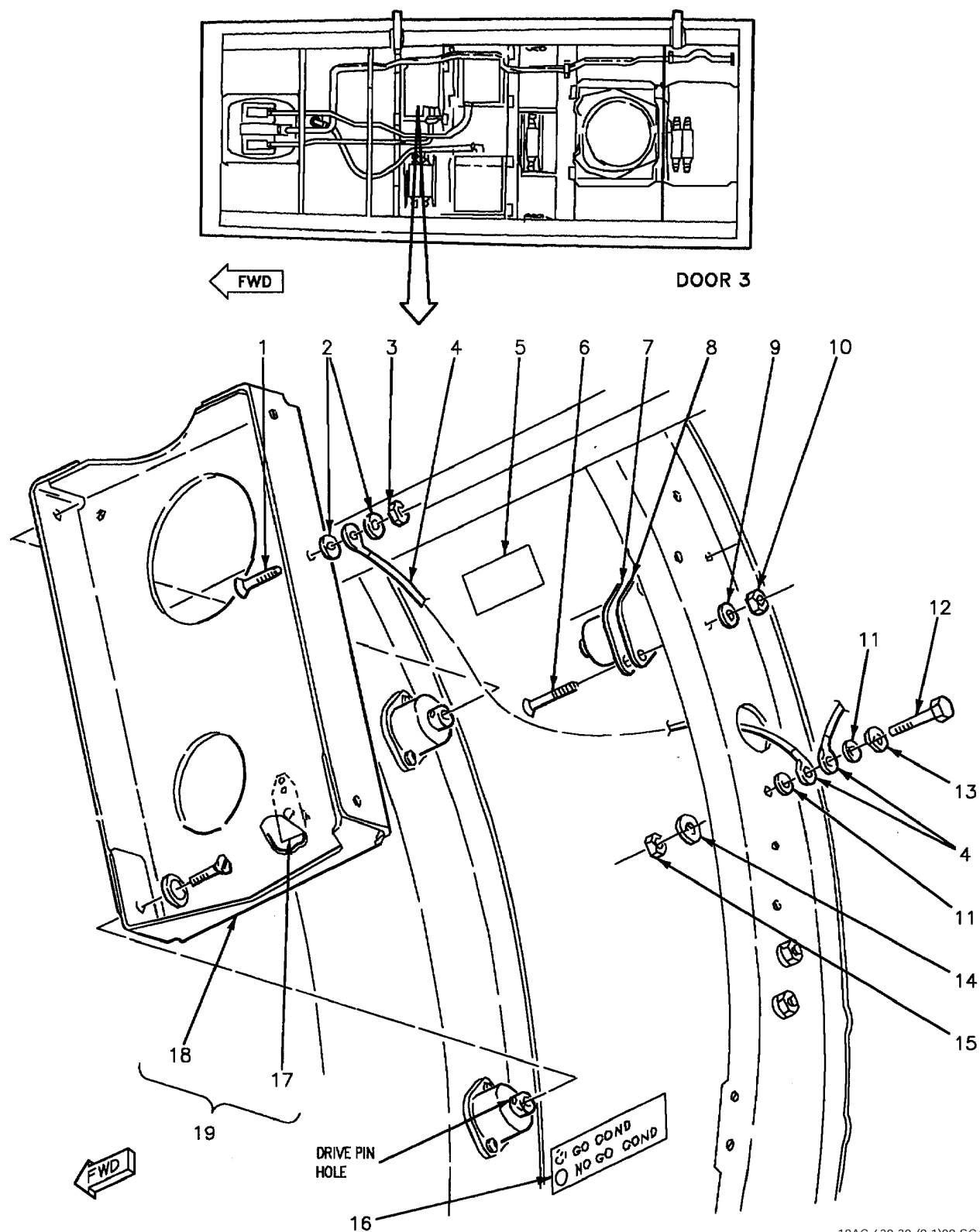
e. Apply sealant around mount (7) (A1-F18AC-LMM-000).

f. Install mounting base (19). Refer to R-1379/ARA-63 ELECTRICAL EQUIPMENT MOUNTING BASE, this WP.

g. Install Radio Receiver R-1379()/ARA-63 (WP003 00).

7. ILLUSTRATED PARTS BREAKDOWN.

8. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



18AC-630-30-(9-1)09-SCAN

Figure 1. R-1379/ARA-63 Electrical Equipment Mounting Base and Resilient Vibration Mount (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USE ON CODE	SM&R CODE
		R-1379/ARA-63 ELECTRICAL			
		EQUIPMENT MOUNTING BASE AND			
		RESILIENT VIBRATION MOUNT			
1	NAS673V2	. BOLT	1		PAOZZ
2	AN960JD10L	. WASHER	2		PAOZZ
3	NAS679A3W	. NUT	1		PAOZZ
4	MS25083-2BB4	. LEAD, ELECTRICAL	2		PAOZZ
5	74A890007-2001	. PLATE, IDENTIFICATION - NOSE	1		MDOZZ
		EQUIPMENT (76301)			
6	HT4024L3-12	. SCREW, CLOSE TOLERANCE (73197)	8	A	PAOZZ
		(MCDONNELL SPEC ST3M455-3L12-1)			
	HT4024L3-13	. SCREW, CLOSE TOLERANCE (73197)	8	B	PAOZZ
		(MCDONNELL SPEC ST3M455-3L13-1)			
7	UT01243-2	. MOUNT, RESILIENT	4	E*	PAOZZ
		(RESILIENT-VIBRATION MOUNT)			
		(76005) (MCDONNELL SPEC			
		ST9M626U2A)			
	23914-2	. MOUNT, RESILIENT	4	E*	PAOZZ
		(RESILIENT-VIBRATION MOUNT)			
		(81860) (MCDONNELL SPEC			
		ST9M626U2A)			
	T22-X22-2	. MOUNT, RESILIENT	4	F*	PAOZZ
		(RESILIENT-VIBRATION MOUNT)			
		(81860) (MCDONNELL SPEC 9M686-2)			
	HT01241-2	. MOUNT, RESILIENT	4	E*	PAOZZ
		(RESILIENT-VIBRATION MOUNT)			
		(76005) (MCDONNELL SPEC			
		ST9M626H2)			
	23914H2	. MOUNT, RESILIENT	4	E*	PAOZZ
		(RESILIENT-VIBRATION MOUNT)			
		(81860) (MCDONNELL SPEC			
		ST9M626H2)			
8	74A880604-2005	. SHIM (76301)	4		MGOZZ
9	AN960JD10L	. WASHER (AFT MOUNTS ONLY)	4		PAOZZ
10	NAS1291C08M	. NUT (AFT MOUNTS ONLY)	4		PAOZZ
11	AN960JD10L	. WASHER	2		PAOZZ
12	HT4024L3-2	. SCREW, CLOSE TOLERANCE (73197)	1	C	PAOZZ
		(MCDONNELL SPEC ST3M455-3L2-1)			
	NAS673V2	. BOLT	1	D	PAOZZ
13	MS35338-43	. WASHER	1	D	PAOZZ
14	MS35338-43	. WASHER	1	C	PAOZZ
15	NAS679A3W	. NUT	1	C	PAOZZ
16	74A890009-2037	. PLATE, IDENTIFICATION - BAY 3R	1		MDOZZ
		(76301)			
17	F50340-3-1	. NUT, PLATE (15653) MCDONNELL	4	*	PAOZZ
		SPEC ST3M720C3M1)			
	F12089-1-3	. NUT, PLATE (72062) MCDONNELL	4	*	PAOZZ
		SPEC (ST3M720C3M1)			
	MS20426AD3 #	. RIVET (AP)	2		-
18	74A880642-2003	. SUPPORT (76301)	1		MGOZZ
19	74A880642-1003	. MOUNTING BASE, ELECTRICAL	1		XBOOO
		EQUIPMENT - R-1379/ARA-63 (76301)			
	HT4024L3-2	. SCREW, CLOSE TOLERANCE (AP)	4		PAOZZ
		(73197) (MCDONNELL SPEC			
		ST3M455-3L2-1)			
	ST4M150-3001	. WASHER (AP) (76301)	4		PAOZZ

**Figure 1. R-1379/ARA-63 Electrical Equipment Mounting Base
and Resilient Vibration Mount (Sheet 2)**

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00).

CODE	USABLE ON	MODEL
A	161353 THRU 161924	F/A-18A/B
B	161925 & UP	F/A-18A/B
C	161353 THRU 161739	F/A-18A/B
D	161740 & UP	F/A-18A/B
E	161353 & UP	F/A-18A/B
F	161353 THRU 161761	F/A-18A/B

Figure 1. R-1379/ARA-63 Electrical Equipment Mounting Base
and Resilient Vibration Mount (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

RADAR RECEIVER-TRANSMITTER RT-1028/ APN-202
(72A-A002)

RADAR BEACON SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Data Link, Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-200
Radar Beacon System Testing - Built-In Test	WP009 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	2
Illustration	3
Parts List	4
Installation	2
Materials Required	1
Parts List	4
Radar Receiver-Transmitter RT-1028/APN-202 (72A-A002), Figure 1	3
Removal	1
Support Equipment Required	1

Record of Applicable Technical Directives

None

Support Equipment Required

1. REMOVAL.

None

Materials Required



Specification or Part
Number

Nomenclature

MS20995NC20
(CAGE 96906)

Lockwire

The Radar Receiver-Transmitter
RT-1028/APN-202 contains electrostatic
sensitive devices (ESD) which can be damaged
if special handling techniques are not used.
Refer to OPNAVINST 4790.2() Volume II.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Open door 3 (A1-F18AC-LMM-010).
- c. On receiver-transmitter (8, figure 1), remove two covers from receptacles.
- d. Disconnect connector (1).
- e. Remove lockwire and disconnect connectors (2, 3, 4, and 5).
- f. Remove four screws (6) and four washers (7).
- g. Remove receiver-transmitter (8).

2. INSTALLATION.



The Radar Receiver-Transmitter RT-1028/APN-202 contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAVINST 4790.2() Volume II.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).

- b. Inspect RT-1028/APN-202 Electrical Equipment Mounting Base and resilient-vibration mount for integrity. If replacement is required, refer to WP014 00.

- c. Prepare mating surfaces for electrical bonding (A1-F18AC-LMM-000).

- d. Secure receiver-transmitter (8, figure 1) to RT-1028/APN-202 Electrical Equipment Mounting Base with four screws (6) and four washers (7).

- e. Apply sealant to four screws (6) and four washers (7) (A1-F18AC-LMM-000).

- f. Connect connectors (2, 3, 4, and 5) and secure with lockwire.

- g. Connect connector (1).

- h. Install two covers on remaining receptacles.

- i. Close door 3 (A1-F18AC-LMM-010).

- j. Do Radar Beacon System Built-In Test (A1-F18AC-630-200, WP009 00).

3. ILLUSTRATED PARTS BREAKDOWN.

- 4. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

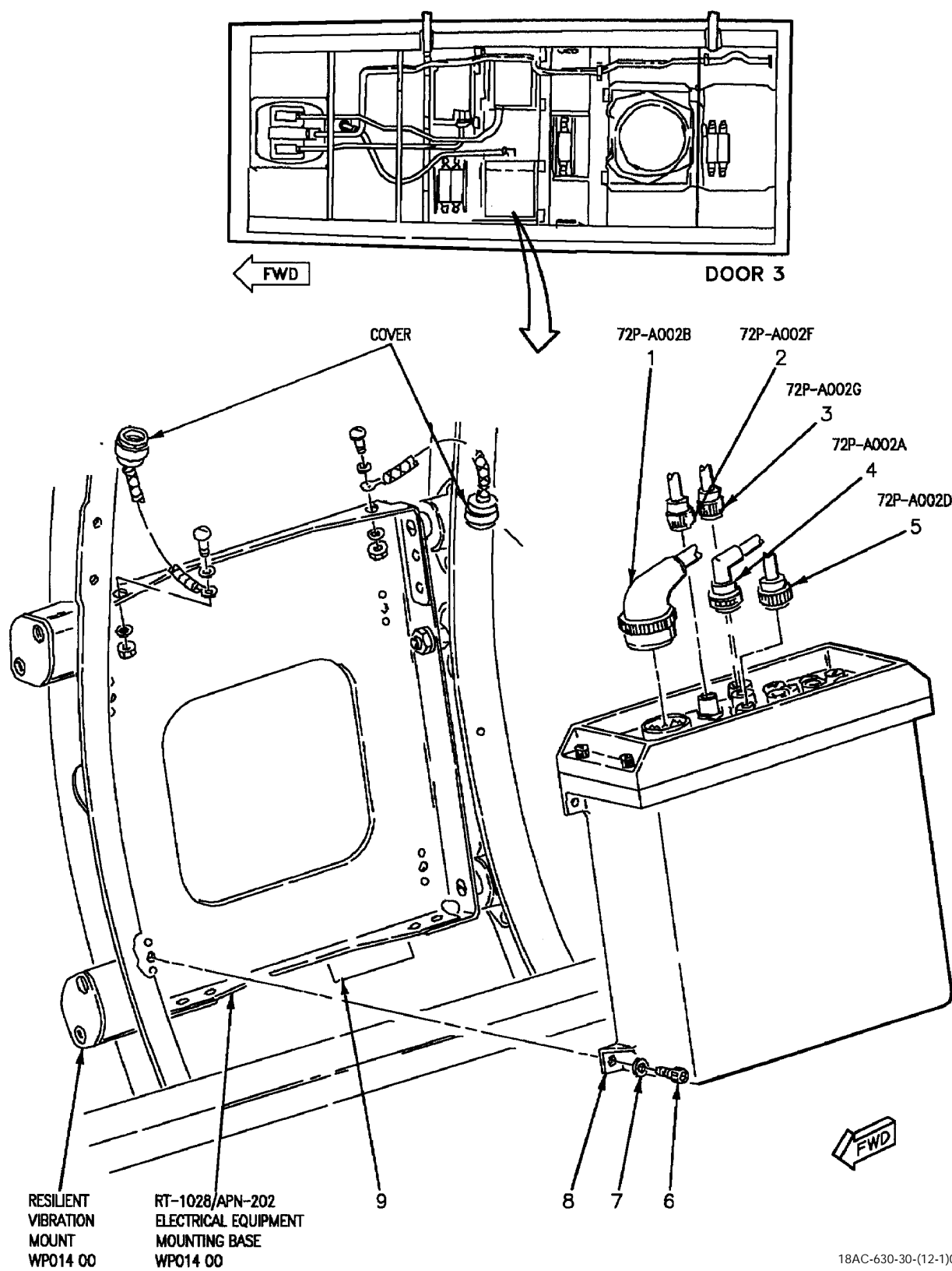


Figure 1. Radar Receiver-Transmitter RT-1028/APN-202 (72A-A002) (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RADAR RECEIVER-TRANSMITTER									
		RT-1028/APN-202 (72A-A002)									
1	MS3476W14-19S	.	CONNECTOR, PLUG (72P-A002B)						1		PAOZZ
2	31-4229-1002	.	CONNECTOR, PLUG, ELECTRICAL						1	*	PAOZZ
		(74868) (MCDONNELL SPEC									
		ST5M1348TS2E) (72P-A002F)									
	125-4-2	.	SEE ABOVE (91836)						1	*	PAOZZ
	1203-041-A00E-2	.	SEE ABOVE (00795)						1	*	PAOZZ
3	M39012/26-0502	.	CONNECTOR, PLUG (72P-A002G)						1		PAOZZ
4	31-4371-3009	.	CONNECTOR, PLUG, ELECTRICAL						1		PAOZZ
		(74868) (MCDONNELL SPEC									
		ST5M1332-001) (72P-A002A)									
	1207-079-A00E	.	SEE ABOVE (00795)						1	*	PAOZZ
	126-6	.	SEE ABOVE (91836)						1	*	PAOZZ
5	31-4229-1001	.	CONNECTOR, PLUG, ELECTRICAL						1	*	PAOZZ
		(74868) (MCDONNELL SPEC									
		ST5M1348TS1E) (72P-A002D)									
	125-4-1	.	SEE ABOVE (91836)						1	*	PAOZZ
	1203-041-A00E-1	.	SEE ABOVE (00795)						1	*	PAOZZ
6	NAS1352-08-10P	.	SCREW						4		PAOZZ
7	NAS620C8	.	WASHER						4		PAOZZ
8	01P05504A001	.	RECEIVER-TRANSMITTER						1		PAOGD
		RT-1028/APN-202 (RADAR RECEIVER-									
		TRANSMITTER RT-1028/APN-202)									
		(72A-A002) (72A-A002)									
9	74A890007-2007	.	PLATE, IDENTIFICATION - NOSE						1		MDOZZ
		EQUIP (76301)									

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

Figure 1. Radar Receiver-Transmitter RT-1028/APN-202 (72A-A002) (Sheet 2)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

RADAR RECEIVER R-1623/APN
(72REB001)

RADAR BEACON SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Data Link, Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-200
Radar Beacon System Testing - Built-In Test	WP009 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	2
Illustration	3
Parts List	4
Installation	2
Materials Required	1
Parts List	4
Radar Receiver R-1623/APN (72REB001), Figure 1	3
Removal	1
Support Equipment Required	1

Record of Applicable Technical Directives

None

Support Equipment Required

1. REMOVAL.

None



Materials Required

None

Radar Receiver R-1623/APN contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAVINST 4790.2() Volume II.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).

- b. Open door 3 (A1-F18AC-LMM-010).
- c. Disconnect connector (2, figure 1).
- d. Remove four screws (4) and four washers (3), securing KA-Band Waveguide Assembly to receiver (8). Remove gasket (5).
- e. Support receiver (8) and remove four screws (7) and four washers (6).
- f. Remove receiver (8).

2. INSTALLATION.



Radar Receiver R-16231APN contains electrostatic sensitive devices (ESD) which can be damaged if special handling techniques are not used. Refer to OPNAVINST 4790.2() Volume II.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Inspect Radar Receiver R-1623/APN Support Assembly and resilient-vibration mount for integrity. If replacement is required, refer to WP013 00.

- c. Prepare mating surfaces for electrical bonding (A1-F18AC-LMM-000).
- d. Secure receiver (8, figure 1) to Radar Receiver R-1623/APN Support Assembly with four screws (7) and four washers (6).
- e. Apply sealant to four screws (7) and four washers (6) (A1-F18AC-LMM-000).
- f. Insert gasket (5) into groove in KA-Band Waveguide Assembly.
- g. Secure KA-Band Waveguide Assembly to receiver (8) with four washers (3), and four screws (4).
- h. Connect connector (2).
- i. Close door 3 (A1-F18AC-LMM-010).
- j. Do Radar Beacon System Built-In Test (A1-F18AC-630-200, WP009 00).

3. ILLUSTRATED PARTS BREAKDOWN.

- 4. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

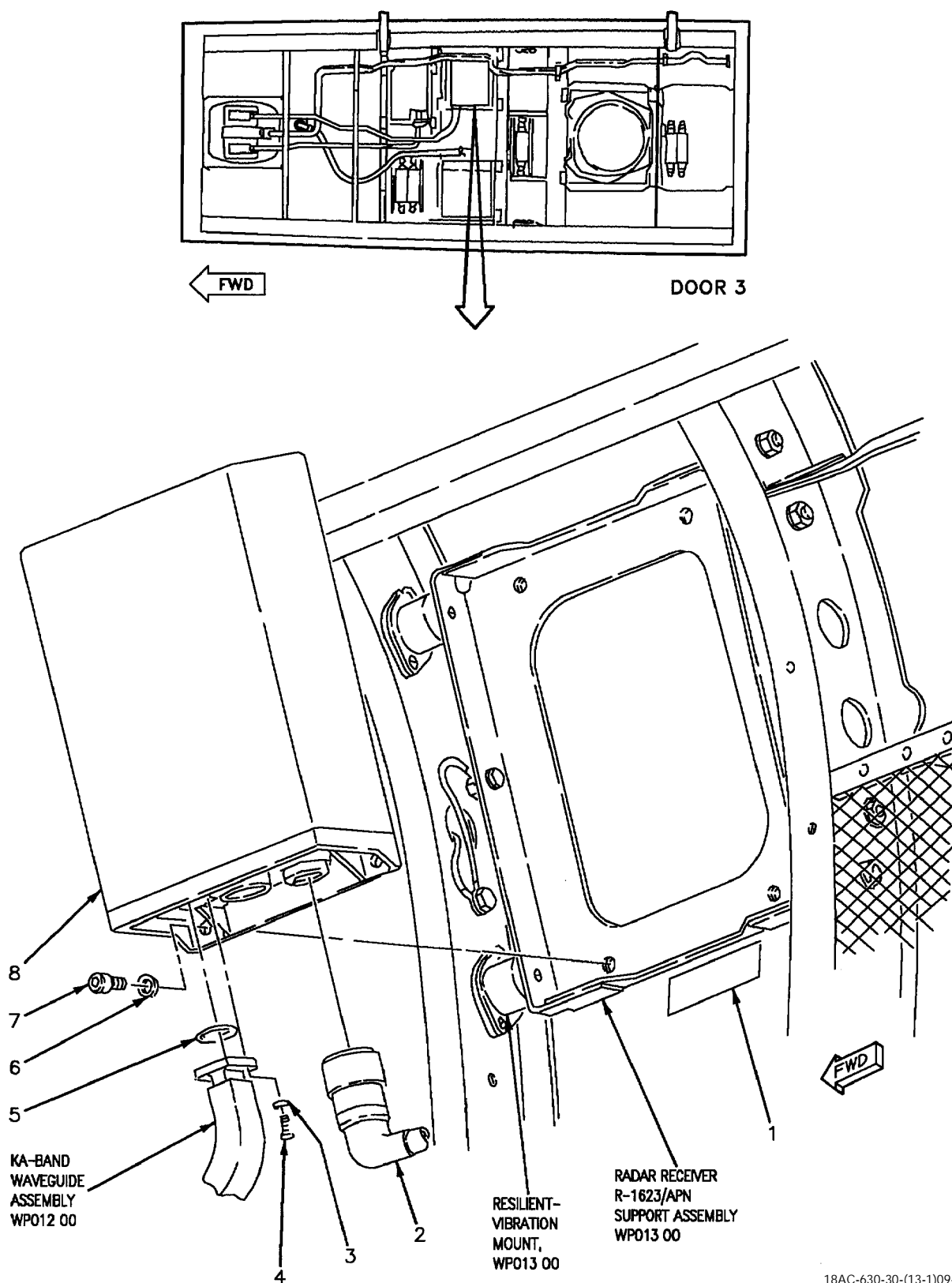


Figure 1. Radar Receiver R-1623/APN (72REB001) (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RADAR RECEIVER R-1623/APN									
		(72REB001)									
1	74A890007-2003	.	PLATE, IDENTIFICATION - NOSE						1		MDOZZ
			EQUIP (76301)								
2	DS07-27-13S1006	.	CONNECTOR, PLUG, ELECTRICAL						1		PAOZZ
			(11139) (MCDONNELL SPEC								
			ST5M1465H1S1) (72P-B001A)								
3	MS35338-135	.	WASHER						4		PAOZZ
4	MS16995-10	.	SCREW						4		PAOZZ
5	MS90064-10	.	GASKET						1		PAOZZ
6	NAS620A416	.	WASHER						4		PAOZZ
7	NAS1351-4-12P	.	SCREW						4		PAOZZ
8	01P06716A001	.	RECEIVER, RADAR R-1623/APN						1	*	PAOZZ
			(94990) (72REB001)								
	R-1623/APN	.	SEE ABOVE (80058)						1	*	PAOGD

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

Figure 1. Radar Receiver R-1623/APN (72REB001) (Sheet 2)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

X-BAND ANTENNA AS-3017/ APN
(72E-B004)

RADAR BEACON SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Data Link Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-200
Radar Beacon System Testing - Functional Test	WP011 00
Structure Repair Manual	A1-F18AC-SRM-200
Sealant Preparation and Application	WP011 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	2
Illustration	3
Parts List	5
Installation	2
Materials Required	1
Parts List	5
Removal	2
Support Equipment Required	1
X -Band Antenna AS-3017/APN (72E-B004), Figure 1	3

Record of Applicable Technical Directives

None

Support Equipment Required

Materials Required

None

Specification or Part
Number

Nomenclature

MS20995NC20
(CAGE 96906)

Lockwire

MIL-S-8802
TY2CLB-1/2
(CAGE 81349)

Sealing Compound

1. REMOVAL.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Open door 3 (A1-F18AC-LMM-010).
- c. Remove lockwire and disconnect connector 72P-B004 (1, figure 1).
- d. Disconnect adapter (2).
- e. Remove nut (3).



Damage to structure may occur if sealant is not removed before removing antenna from aircraft.

Metal tools must not be used for removing sealant. The structure may be scratched, resulting in oxidation.

- f. Using non-metallic tool, remove sealant from around antenna (5).
- g. Remove antenna (5).

2. INSTALLATION.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).

- b. Prepare mounting surfaces of antenna (5, figure 1) and door 3 for electrical bonding (A1-F18AC-LMM-000).

- c. Secure antenna (5) to door 3 with nut (3).

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

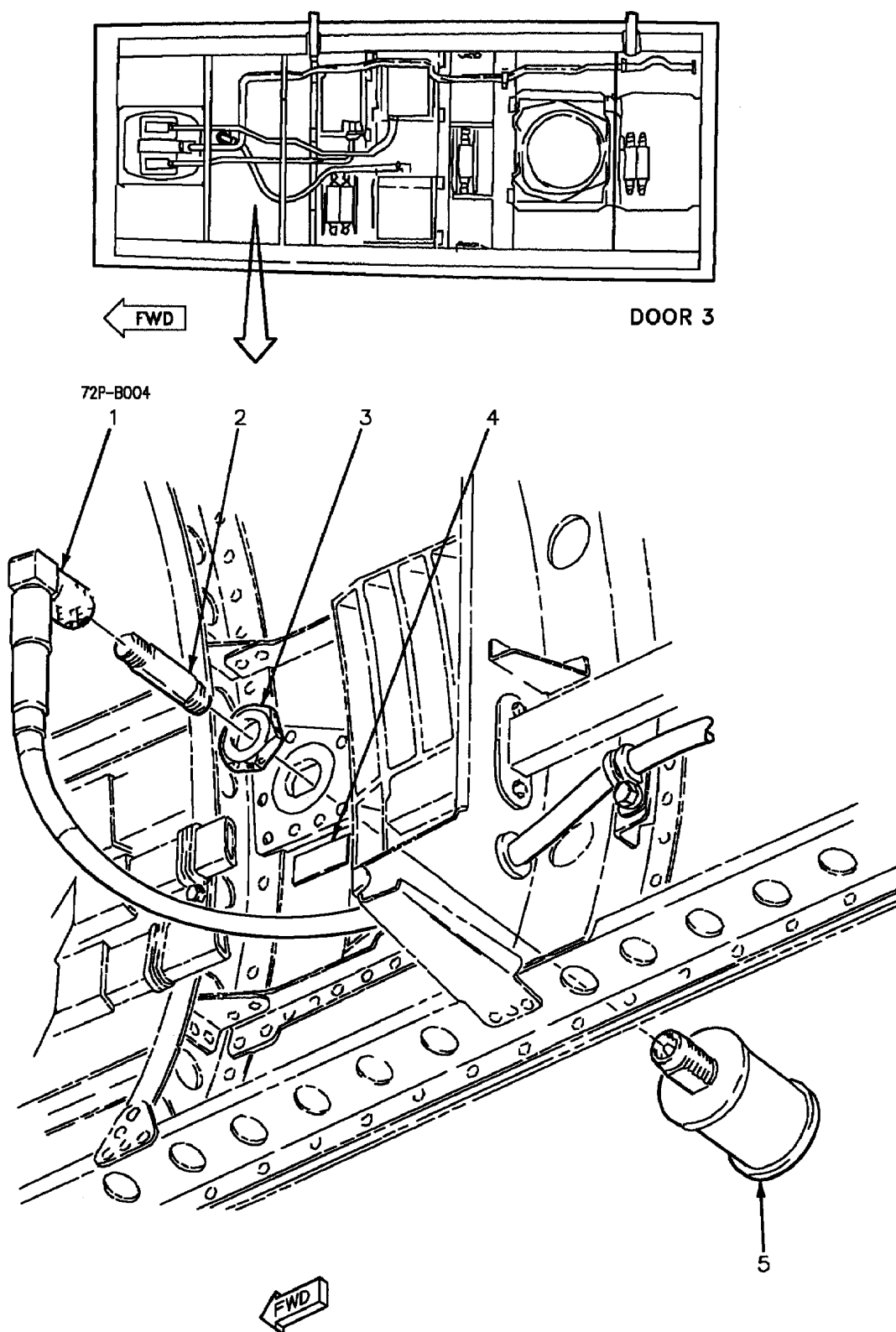
- d. On outside of door 3, apply fillet seal around periphery of antenna (5) with sealing compound MIL-S-8802 TY2CLB-1/2 (A1-F18AC-SRM-200, WP011 00).

- e. Connect adapter (2) to antenna (5).
- f. Connect connector 72P-B004 (1) to adapter (2).
- g. Secure with lockwire.
- h. Close door 3 (A1-F18AC-LMM-010).

- i. Do Radar Beacon System Functional Test (NORM Mode Test only) (A1-F18AC-630-200, WP011 00).

3. ILLUSTRATED PARTS BREAKDOWN.

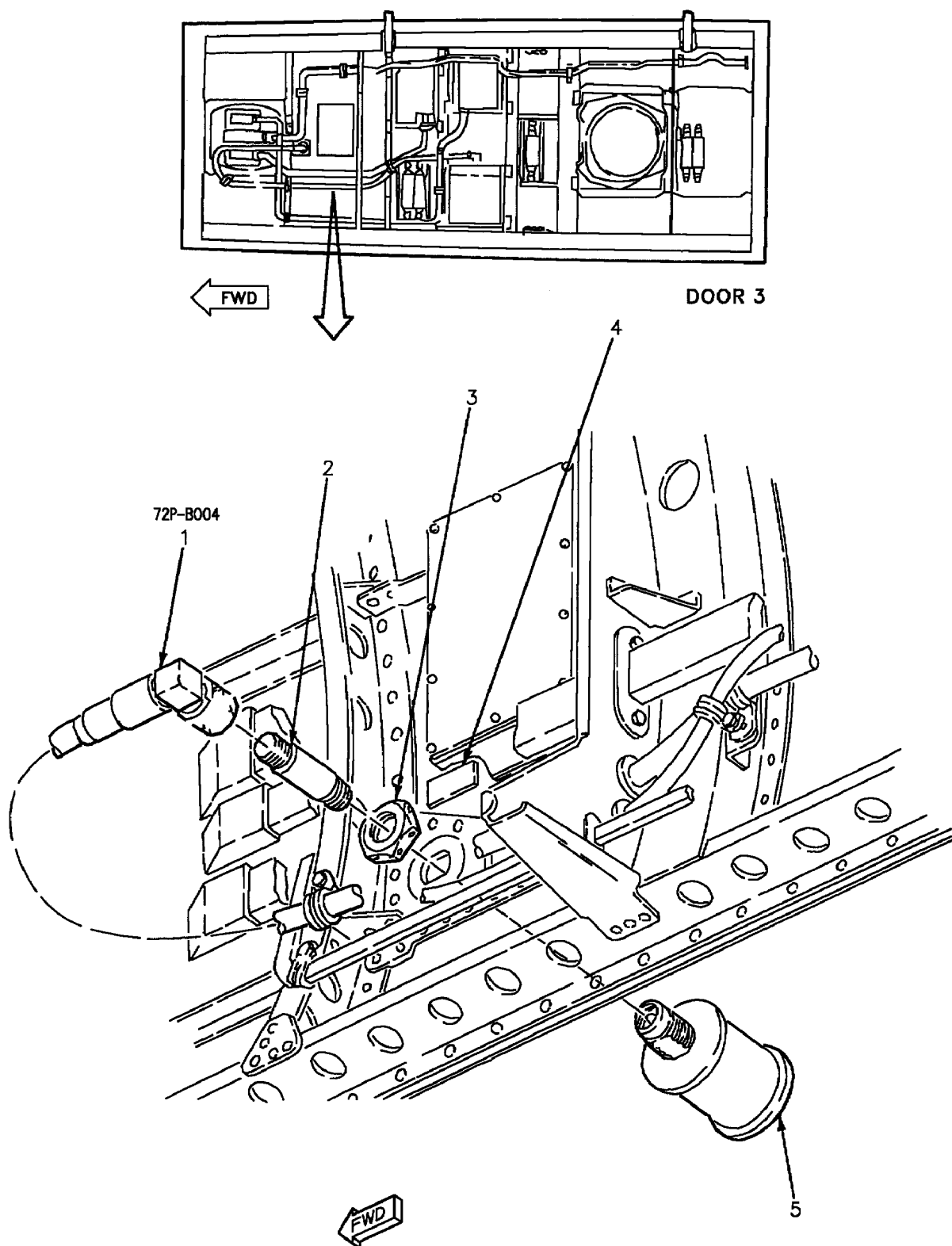
4. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



161353 THRU 161528

18AC-630-30-(8-1)09-SCAN

Figure 1. X-Band Antenna AS-3017/APN (72E-B004) (Sheet 1)



161702 AND UP

18AC-630-30-(8-2)09-SCAN

Figure 1. X-Band Antenna AS-3017/APN (72E-B004) (Sheet 2)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		X-BAND ANTENNA AS-3017/APN									
		(72E-B004)									
1	M39012/05-0501	.	CONNECTOR, PLUG (72P-B004)						1		PAOZZ
2	M55339-07-00029	.	ADAPTER (72CPB004)						1		PAOZZ
3	261D1091	.	ADAPTER, AS-3017/APN ANTENNA						1		PAOZZ
			MOUNTING FOR A-6 (85226) (USE NUT ONLY) (KIT)								
4	74A890054-2007	.	MARKER, IDENTIFICATION,						1		MDOZZ
			ANTENNA (76301)								
5	DMQ 20-3	.	ANTENNA, BEACON-X BAND,						1	*	PAOZZ
			RADAR AS-3017/APN (X-BAND ANTENNA AS-3017/APN) (85226) (72E-B004)								
	AS-3017/APN	.	SEE ABOVE (80058)						1	*	PAOZZ

ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

Figure 1. X-Band Antenna AS-3017/APN (72E-B004) (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

KA-BAND ANTENNA AS-3362/APN
(72E-B003)

RADAR BEACON SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Data Link, Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-200
Radar Beacon System Testing - Functional Test	WP011 00
Structure Repair Manual	A1-F18AC-SRM-200
Sealant Preparation and Application	WP011 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	2
Illustration	3
Parts List	4
Installation	2
KA-Band Antenna AS-3362/APN (72E-B003), Figure 1	3
Materials Required	1
Parts List	4
Removal	2
Support Equipment Required	1

Record of Applicable Technical Directives

None

Support Equipment Required

None

Materials Required

Specification or Part
Number

Nomenclature

MIL-S-8802
TY2CLB-1/2
(CAGE 81349)

Sealing Compound

NOTE

A missing radome does not degrade antenna performance and is not reason for antenna replacement.

1. REMOVAL.

a. Do not replace antenna, with radome missing, if the dielectric insert is still bonded in place.

b. Visible cracks in antenna coating around perimeter of dielectric insert are acceptable.

c. Replace antenna if both radome and dielectric insert are missing.

d. Make sure electrical power is off (A1-F18AC-LMM-000).

e. Open door 3 (A1-F18AC-LMM-010).

f. Disconnect antenna (2, figure 1) from KA-Band Waveguide Assembly or KA-Band Coax Cable/Waveguide Assembly by removing four screws (4), four washers (5), and gasket (3).

g. Remove six screws (6) from door 3.



Damage to structure may occur if sealant is not removed before removing antenna from aircraft.

Metal tools must not be used for removing sealant. The structure may be scratched, resulting in oxidation.

h. Using non-metallic tool, remove sealant from around antenna (2).

i. Remove antenna (2).

2. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).



To prevent damage to antenna, do not allow cleaning solution to touch surface of antenna radome. Clean mating surfaces only.

b. Prepare mating surfaces for electrical bonding (A1-F18AC-LMM-000).

c. Secure antenna (2, figure 1) to door 3 with six screws (6).

d. On inside of door 3, apply sealant to six screws (6) (A1-F18AC-LMM-000).

e. Insert gasket (3) in groove of antenna (2).

f. Connect KA-Band Waveguide Assembly or KA-Band Coax Cable/Waveguide Assembly to antenna (2) with four screws (4), and four washers (5).

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

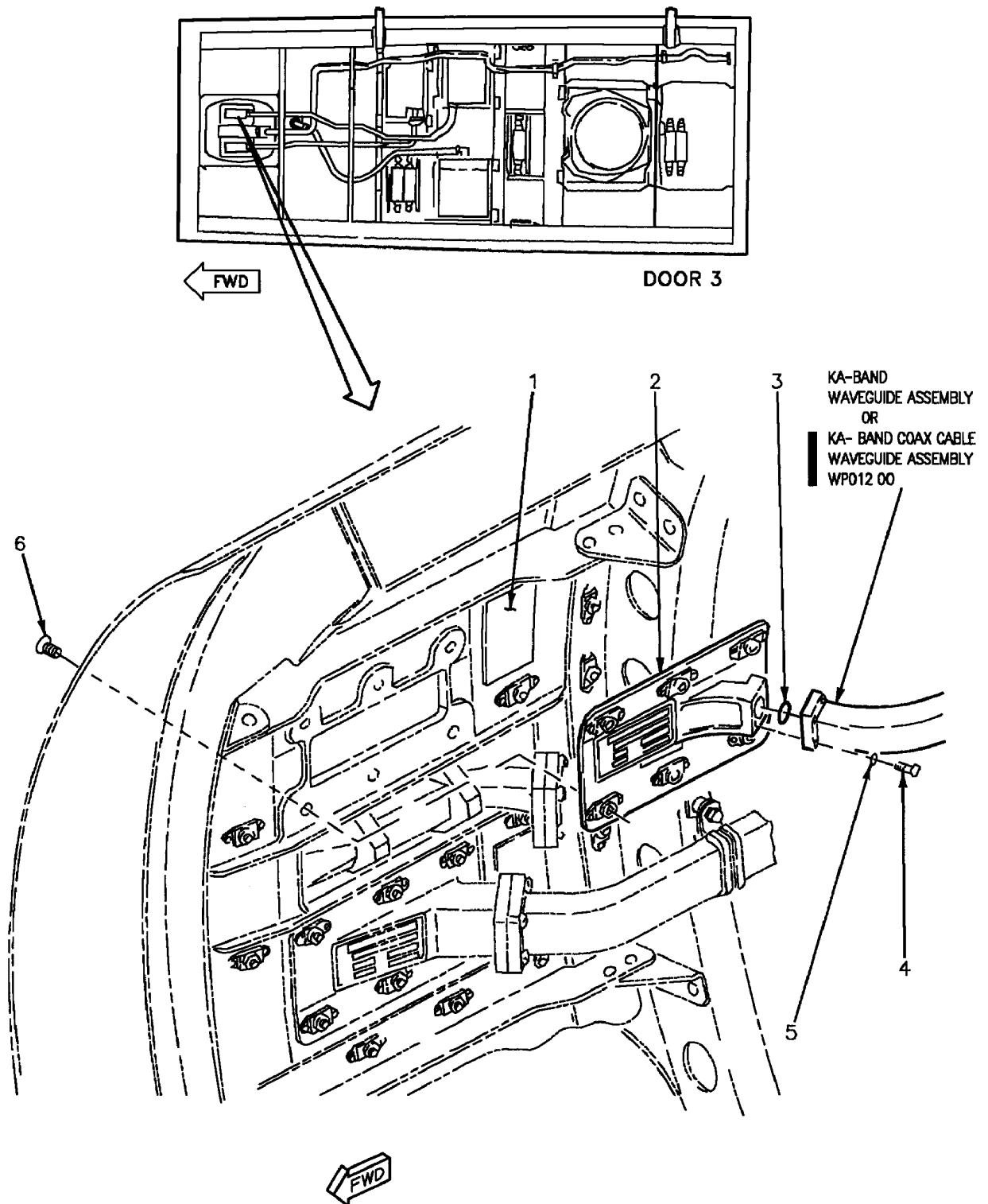
g. On outside of door 3, apply butt seal around periphery of antenna (2), and on inside of door 3, apply fillet seal around periphery of antenna with sealing compound MIL-S-8802 TY2CLB-1/2 (A1-F18AC-SRM-200, WP011 00).

h. Close door 3 (A1-F18AC-LMM-010).

i. Do Radar Beacon System Functional Test (NORM Mode and ACL Mode) (A1-F18AC-630-200, WP011 00).

3. ILLUSTRATED PARTS BREAKDOWN.

4. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



18AC-630-(5-1)11-SCAN

Figure 1. KA-Band Antenna AS-3362/APN (72E-B003) (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		KA-BAND ANTENNA AS-3362/APN1									
		(72E-B003)									
1	74A890054-2051	.	MARKER, IDENTIFICATION -						1		MDOZZ
			ANTENNA (76301)								
2	9C32600	.	ANTENNA AS-3362/APN						1		PAOZZ
			(KA-BAND ANTENNA) (82152)								
			(MCDONNELL SPEC 74-870061-101)								
			(72E-B003)								
3	MS90064-10	.	GASKET						1		PAOZZ
4	MS16995-10	.	SCREW						4		PAOZZ
5	MS35338-135	.	WASHER						4		PAZZZ
6	NAS663V4HT	.	SCREW						6		PAOZZ

Figure 1. KA-Band Antenna AS-3362/APN (72E-B003) (Sheet 2)

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****KA-BAND WAVEGUIDE ASSEMBLY
(72W-B501)****KA-BAND COAX CABLE/WAVEGUIDE ASSEMBLY
(72W-B502)****RADAR BEACON SYSTEM**

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	A1-F18AC-LMM-010
Data Link, Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-200
Radar Beacon System Testing -Functional Test	WP011 00
Structural Repair, General Information	A1-F18AC-SRM-200
Adhesive, Cement, and Sealant; Preparation and Application	WP011 00
Tactical Electronic Warfare Systems	A1-F18AC-760-200
Countermeasures Set Functional Test	WP025 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	6
Illustration	
161363 THRU 161528	7
Coax Cable/Waveguide Assembly - 161702 AND UP	9
Waveguide Assembly - 161702 AND UP	9
Parts List	
161353 THRU 161528	8
Coax Cable/Waveguide Assembly - 161702 AND UP	14
Waveguide Assembly - 161702 AND UP	14
Introduction	2
KA-Band Coax Cable/Waveguide Assembly (72W-B502) - 161702 AND UP	5
Installation	5
Materials Required	5
Parts List	14
Removal	5
Support Equipment Required	5
KA-Band Coax Cable/Waveguide Assembly (72W-B502) - 161702 AND UP, Figure 2	9
KA-Band Waveguide Assembly (72W-B501) - 161353 THRU 161528	2
Installation	3
Materials Required	2

Alphabetical Index (Continued)

Subject	Page No.
Parts List	8
Removal	2
Support Equipment Required	2
KA-Band Waveguide Assembly (72W-B501) - 161702 AND UP	3
Installation	4
Materials Required	3
Parts List	14
Removal	3
Support Equipment Required	3
KA-Band Waveguide Assembly (72W-B501) - 161353 THRU 161528, Figure 1	7
KA-Band Waveguide Assembly (72W-B501) - 161702 AND UP, Figure 2	9

Record of Applicable Technical Directives

None

1. INTRODUCTION

2. On 161702 AND UP, the KA-Band Waveguide Assembly (72W-B501) is an alternate configuration of the KA-Band Coax Cable/Waveguide Assembly (72W-B502). The coax cable/waveguide assembly is the preferred spare. For removal and installation of the coax cable/waveguide assembly refer to figure 2, this WP. For removal and installation of the waveguide assembly refer to figure 2, this WP.

3. KA-BAND WAVEGUIDE ASSEMBLY (72W-B501) - 161353 THRU 161528.

Support Equipment Required

None

Materials Required

None

4. REMOVAL.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Open door 3 (A1-F18AC-LMM-010).

- c. Disconnect waveguide assembly (2, figure 1) from KA-Band Antenna AS-3362/APN by removing attaching parts.
- d. Remove clamp (3) and attaching parts.
- e. Remove bolt (8), washer (7), spacer (6 and 4) and clamp (5).
- f. Disconnect waveguide assembly (2) from Receiver R-16231APN by removing attaching parts.
- g. Remove two bolts (9), two washers (10), and two supports (11 and 12).



- To prevent damage to waveguide assembly, make sure rigid section of waveguide assembly is not bent or damaged while removing.
- h. Slide waveguide assembly (2, figure 1) forward and work flange through opening in rib.
 - i. Remove waveguide assembly (2).
 - j. Remove gasket (1) from Radar Receiver R-1623/APN and KA-Band Antenna AS-3362/APN.

5. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).



To prevent damage to waveguide assembly, make sure rigid section of waveguide assembly is not bent or damaged while installing.

b. Carefully work flange of waveguide assembly (2, figure 1) through opening in rib.

c. Slide waveguide assembly (2) aft until waveguide support is against rib.

d. Secure waveguide assembly (2) to rib with two supports (11 and 12), two bolts (9), and two washers (10).

e. Secure aft end of waveguide assembly (2) to with clamp (5), spacer (6 and 4), bolt (8), and washer (7).

f. Insert gasket (1) into groove of Radar Receiver R-1623/APN.

g. Secure waveguide assembly (2) to Radar Receiver R-1623/APN using attaching parts.

h. Secure forward end of waveguide assembly (2) to rib with clamp (3) using attaching parts.

i. Insert gasket (1) into groove of KA-Band Antenna AS-3362/APN.

j. Secure waveguide assembly (2) to KA-Band Antenna AS-3362/APN using attaching parts.

k. Close door 3 (A1-F18AC-LMM-010).

l. Do Radar Beacon System Functional Test (NORM Mode and ACL Mode) (A1-F18AC-630-200, WP011 00).

6. KA-BAND WAVEGUIDE ASSEMBLY (72W-B501) - 161702 AND UP.

Support Equipment Required

None

Materials Required

Specification or Part Number	Nomenclature
MS20995NC20 (CAGE 96906)	Lockwire
MIL-S-8802 TY2CLB-1/2 (CAGE 81349)	Sealing Compound
MIL-S-8802 TY2CLA-1/2 (CAGE 81349)	Sealing Compound

7. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door 3 (A1-F18AC-LMM-010).

c. Disconnect waveguide assembly (4, figure 2) from Radar Receiver R-1623/APN by removing four screws (3) and four washers (2).

d. Remove gasket (1) from Radar Receiver R-1623/APN.

e. Remove two clamps (5 and 11) and attaching parts from waveguide assembly (4).

f. Remove clamp (9) from waveguide assembly (4) by removing bolt (6), washer (7), and two spacers (8 and 10).

g. On 161702 THRU 161965, remove two bolts (12), two washers (13), two supports (14 and 15) and two nuts (16).



Metal tools must not be used for removing sealant. The structure may be scratched, resulting in oxidation.

h. On 161966 AND UP, remove fume seal using a non-metallic tool.

i. On 161966 AND UP, remove clamp (17) and attaching parts.

j. Disconnect forward AN/ALQ-126 waveguide segment 9 from Forward High Band Antenna AS-3385/ALQ-126 by unfastening four captive screws.

k. Remove gasket (18) from Forward High Band Antenna AS-3385/ALQ-126.

l. Remove lockwire and disconnect connector 72P-B004 (19).

m. Remove two clamps (20) and attaching parts from cable assembly.

n. Disconnect KU-band waveguide assembly from KU-Band Antenna AS-3361/ARA-63 by removing four screws (21) and four washers (22).

o. Remove gasket (23) from KU-Band Antenna AS-3361/ARA-63.

p. Remove two clamps (27 and 28) and attaching parts from waveguide assembly (4).

q. Disconnect waveguide assembly (4) from KA-Band Antenna AS-3362/APN by removing four screws (26) and four washers (25).

r. Remove gasket (24) from KA-Band Antenna AS-3362/APN.



To prevent damage to waveguide assembly, make sure rigid section of waveguide assembly is not bent or damaged while removing.

s. Remove waveguide assembly (4).

8. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).



To prevent damage to waveguide assembly, make sure that rigid section of waveguide assembly is not bent or damaged while installing.

b. Carefully work flange of waveguide assembly (4, figure 2) through opening in rib.

c. Slide waveguide assembly (4) aft.

d. On 161702 THRU 161965, secure waveguide assembly (4) to rib with two supports (14 and 15), two bolts (12), and two washers (13) and two nuts (16).

e. On 161966 AND UP, secure waveguide (4) to rib with clamp (17) and attaching parts.

f. Secure waveguide assembly (4) to rib with two clamps (5 and 11) and attaching parts.

g. Secure waveguide assembly (4) to rib with clamp (9), bolt (6), washer (7), and two spacers (8 and 10).

h. Insert gasket (1) into groove of Radar Receiver R-1623/APN.

i. Secure waveguide assembly (4) to Radar Receiver R-1623/APN with four screws (3) and four washers (2).

j. Insert gasket (24) into groove of KA-Band Antenna AS-3362/APN.

k. Secure waveguide assembly (4) to KA-Band Antenna AS-3362/APN with four screws (26) and four washers (25).

l. Install two clamps (27 and 28) and attaching parts.

m. Insert gasket (18) into groove of forward AN/ALQ-126 waveguide segment 9.

n. Secure forward AN/ALQ-126 waveguide segment 9 to Forward High Band Antenna AS-3385/ALQ-126 with four captive screws.

o. Insert gasket (23) into groove of KU-Band Antenna AS-3361/ARA-63.

p. Secure KU-band waveguide assembly to KU-Band Antenna AS-336/ARA-63 with four screws (21) and four washers (22).

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

q. On 161966 AND UP, apply fume seal using MIL-S-8802 TY2CLB-1/2 and MIL-S-8802 CLA-1/2 sealant (A1-F18AC-SRM-200, WP011 00).

r. Connect connector 72P-B004 (19). Safety with lockwire.

s. Secure cable assembly to door 3 with two clamps (20) and attaching parts.

t. Close door 3 (A1-F18AC-LMM-010).

u. Do Countermeasures Set Functional Test (A1-F18AC-760-200, WP025 00).

v. Do Radar Beacon System Functional Test (NORM Mode and ACL Mode) (A1-F18AC-630-200, WP011 00).

9. KA-BAND COAX CABLE/WAVEGUIDE ASSEMBLY (72W-B502) - 161702 AND UP.

Support Equipment Required

None

Materials Required

Specification or Part Number	Nomenclature
MS20995NC20 (CAGE 96906)	Lockwire
MIL-S-8802 TY2CLB-1/2 CAGE 81349)	Sealing Compound

Materials Required (Continued)

Specification or Part Number	Nomenclature
MIL-S-8802 TY2CLA-112 (CAGE 81349)	Sealing Compound

10. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door 3 (A1-F18AC-LMM-010).

c. Disconnect coax cable/waveguide assembly (4, figure 2 detail E) from Radar Receiver R-1623/APN by removing screws (3) and washers (2).

d. Remove gasket (1) from Radar Receiver R-1623/APN.

e. Remove clamp (32) from coax cable/waveguide assembly (4) by removing bolt (31), washer and spacers (33 and 34).



Metal tools must not be used for removing sealant. The structure may be scratched, resulting in oxidation.

f. Remove fume seal using a non-metallic tool.

g. Remove clamps (29) and attaching parts.

h. Remove clamp (30, detail D) and attaching parts from coax cable/waveguide assembly (4).

i. Disconnect coax cable/waveguide assembly (4) from KA-Band Antenna AS-3362/APN by removing screws (26, detail C) and attaching parts.

j. Remove gasket (24) from KA-Band Antenna AS-3362/APN.

k. Remove coax cable/waveguide assembly (4).

11. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Carefully work flange of coax cable/waveguide assembly (4, figure 2) through opening in rib.

c. Slide coax cable/waveguide assembly (4) aft.

d. Secure coax cable/waveguide (4) to ribs with clamps (29) and attaching parts.

e. Secure coax cable/waveguide assembly (4, detail F) to rib with clamp (32), bolt (31), washer and spacers (33 and 34).

f. Insert gasket (1, detail E) into groove of Radar Receiver R-1623/APN.

g. Secure coax cable/waveguide assembly (4, detail E) to Radar Receiver R-1623/APN with washers (2) and screws (3).

h. Insert gasket (24, detail C) into groove of KA-Band Antenna AS-3362/APN.

i. Secure coax cable/waveguide assembly (4, detail C) to KA-Band Antenna AS-3362/APN with washers (25) and screws (4).

j. Install clamp (30, detail D) and attaching parts.

WARNING

Sealing compound is flammable and toxic to eyes, skin, and respiratory tract. Skin/eye protection required. Avoid repeated/prolonged contact. Use only in well ventilated areas. Keep away from open flames or other sources of ignition.

k. Apply fume seal using MIL-S-8802 TY2CLB-1/2 and MIL-S-8802 TY2CLA-1/2 sealant (A1-F18AC-SRM-200, WP011 00).

l. Close door 3 (A1-F18AC-LMM-010).

m. Do Radar Beacon System Functional Test (NORM Mode and ACL Mode) (A1-F18AC-630-200, WP011 00).

12. ILLUSTRATED PARTS BREAKDOWN.

13. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

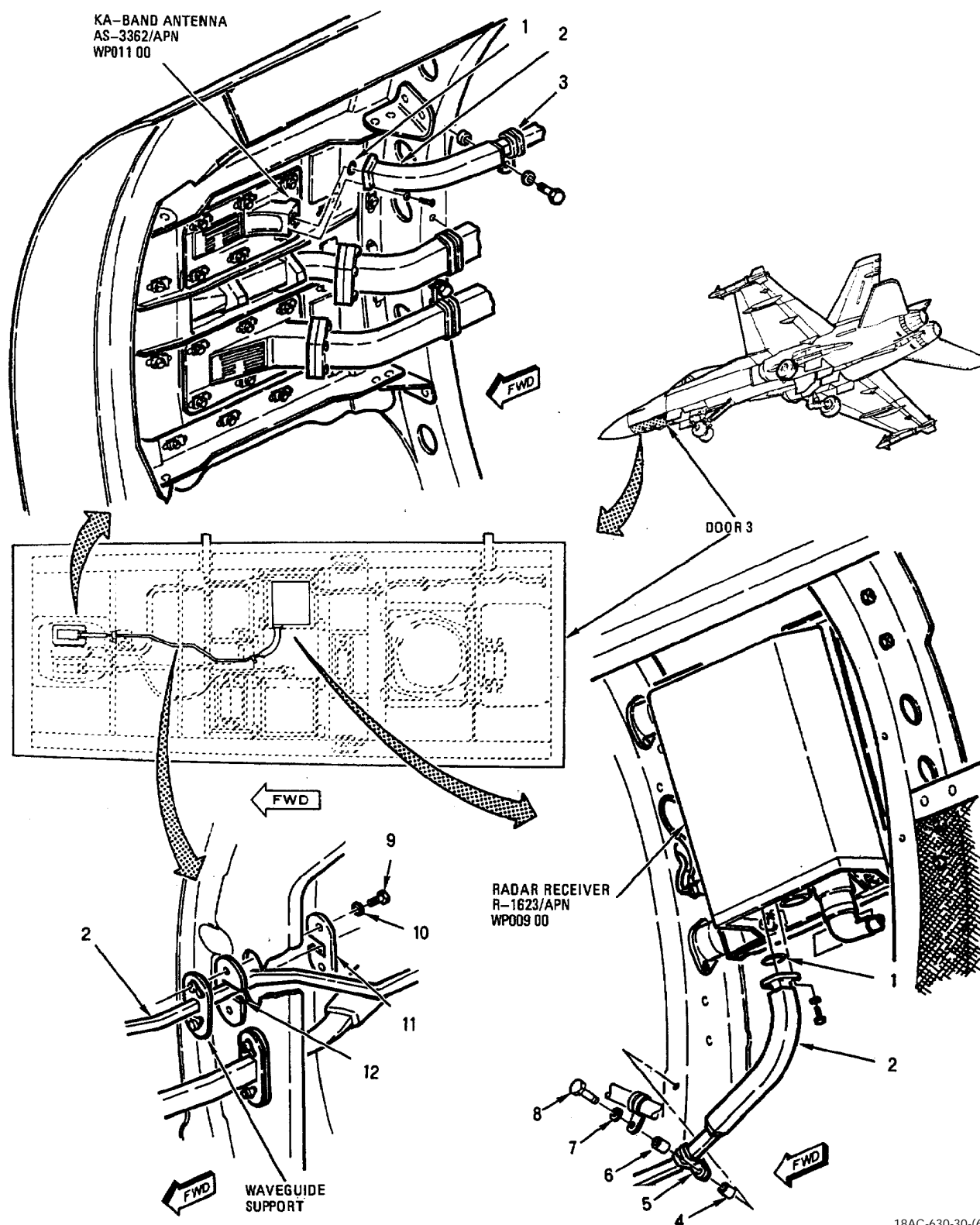
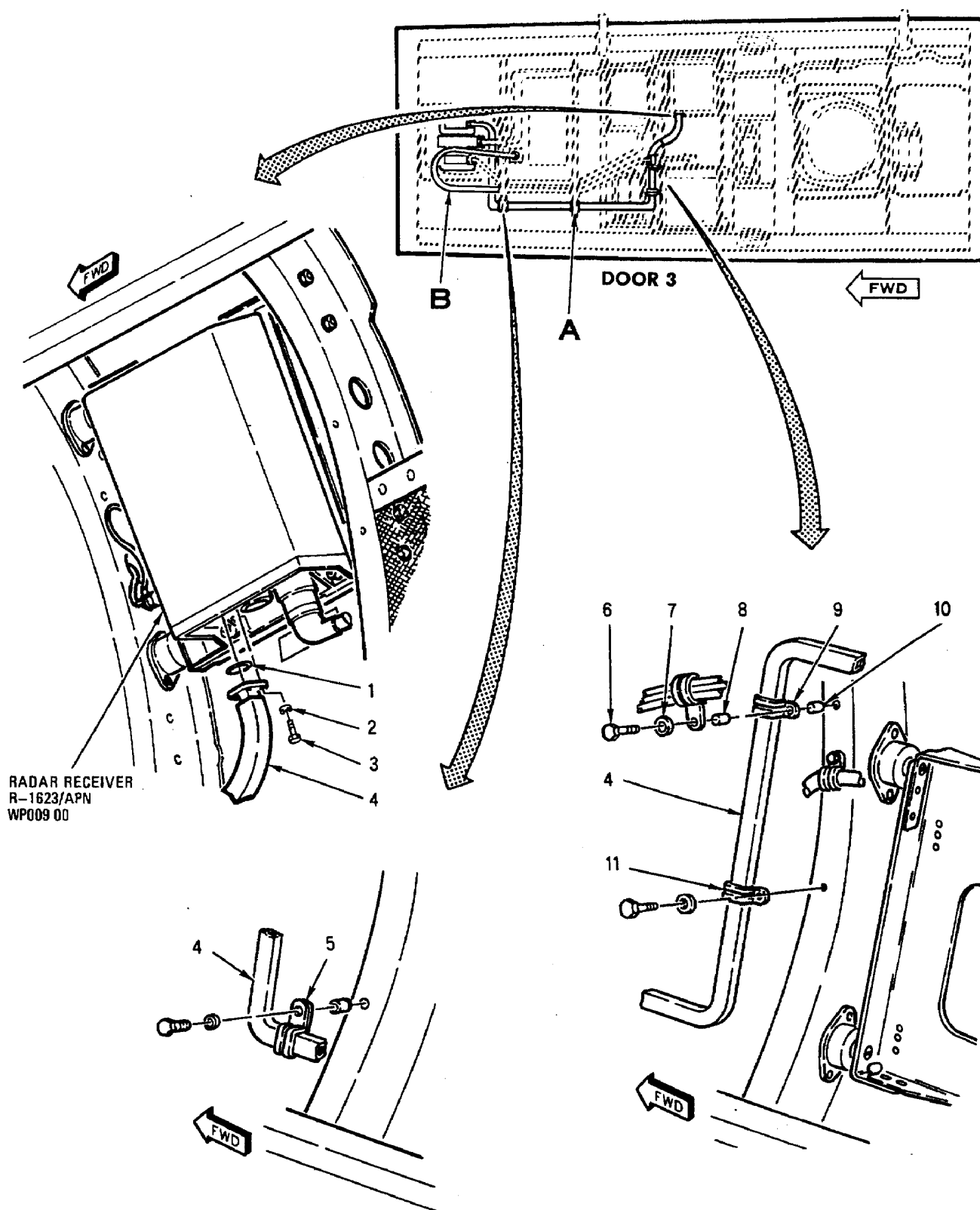


Figure 1. KA-Band Waveguide Assembly (72W-B501) - 161353 THRU 161528 (Sheet 1)

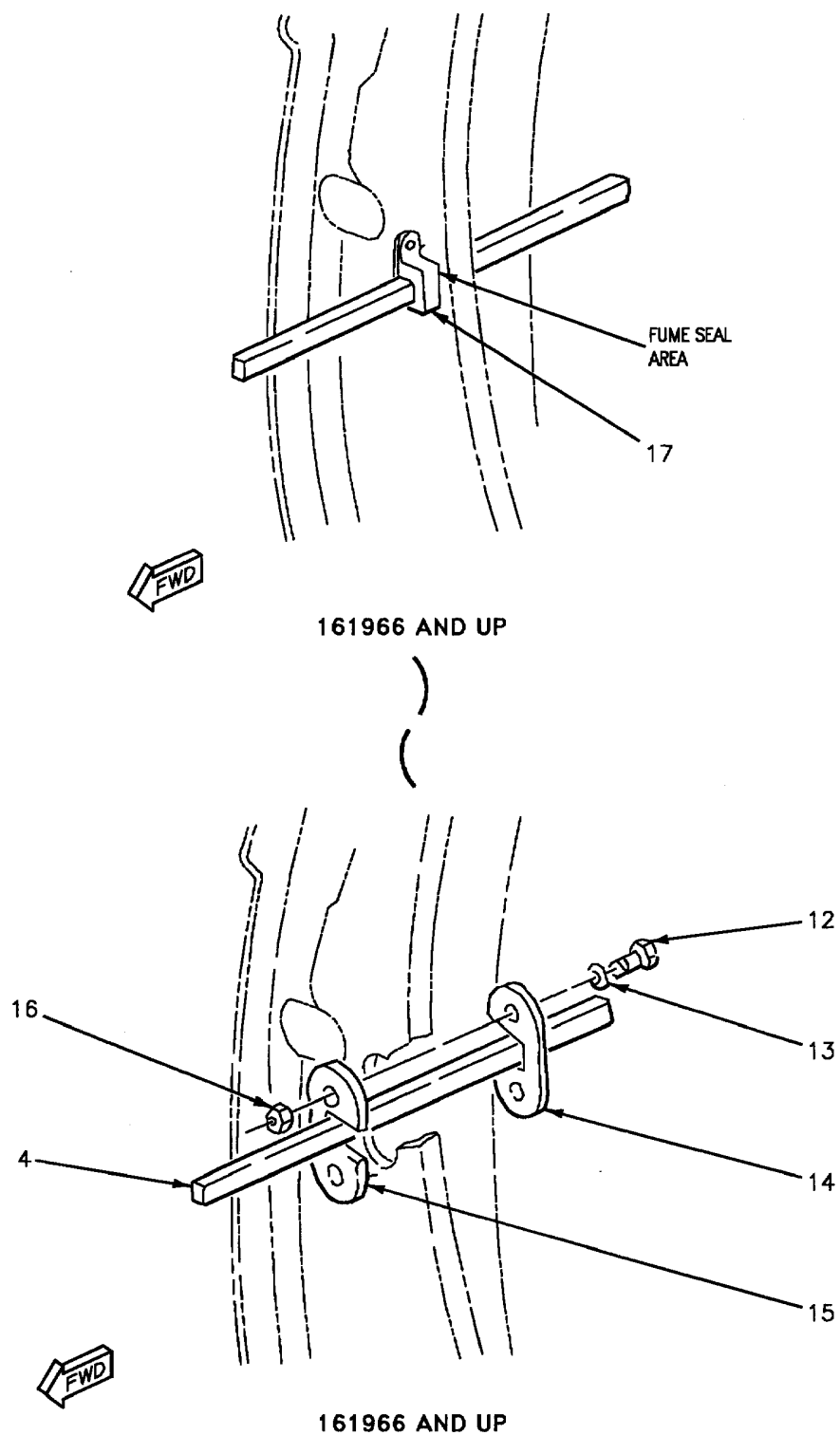
INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		KA-BAND WAVEGUIDE ASSEMBLY									
		(72W-B501) - 161353 THRU 161528									
1	MS90064-10	.	GASKET						2		PAOZZ
2	TRS41017-1	.	WAVEGUIDE ASSEMBLY (KA-BAND						1		PAOZZ
			(87864) (MCDONNELL SPEC								
			74J888001-101) (72W-B501)								
	MS16995-10	.	SCREW (AP)						8		PAOZZ
	MS35338-135	.	WASHER (AP)						8		PAOZZ
3	NAS1714D3-3S	.	CLAMP						1		PAOZZ
	NAS673V3	.	BOLT (AP)						1		PAOZZ
	AN960JD10L	.	WASHER (AP)						1		PAOZZ
	NAS42DD6-8	.	SPACER (AP)						1		PAOZZ
4	NAS42DD6-16	.	SPACER						1		PAOZZ
5	NAS1714D3-3S	.	CLAMP						1		PAOZZ
6	NAS42DD6-24	.	SPACER						1		PAOZZ
7	AN960JD10L	.	WASHER						1		PAOZZ
8	NAS673V13	.	BOLT						1		PAOZZ
9	NAS673V6	.	BOLT						2		PAOZZ
10	AN960JD10L	.	WASHER						2		PAOZZ
11	74A880661-2003	.	SUPPORT, WAVEGUIDE, KA-BAND						1		MDOZZ
			(76301)								
12	74A880661-2005	.	SUPPORT, WAVEGUIDE, KA-BAND						1		MDOZZ
			(76301)								

Figure 1. KA-Band Waveguide Assembly (72W-B501) -
161353 THRU 161528 (Sheet 2)



18AC-630-30-(23-1)C

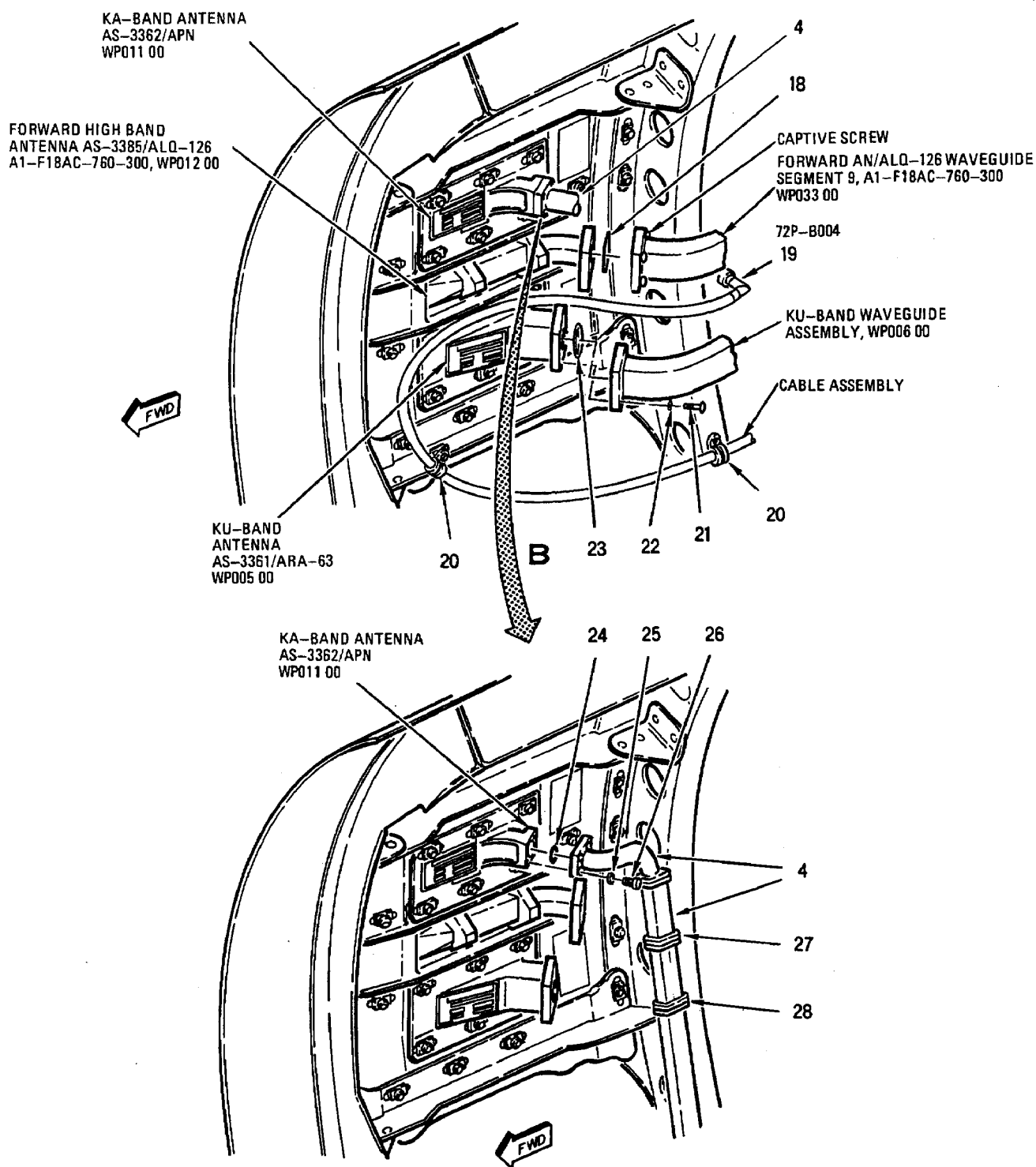
Figure 2. KA-Band Coax Cable/Waveguide Assembly (72W-B501 and 72W-B502) - 161702 AND UP (Sheet 1)



A

AC-630-30-(23-2)09-SCAN

Figure 2. KA-Band Coax Cable/Waveguide Assembly (72W-B501 and 72W-B502) - 161702 AND UP (Sheet 2)



18AC-630-30-(23-3)09

Figure 2. KA-Band Coax Cable/Waveguide Assembly (72W-B501 and 72W-B502) -
161702 AND UP (Sheet 3)

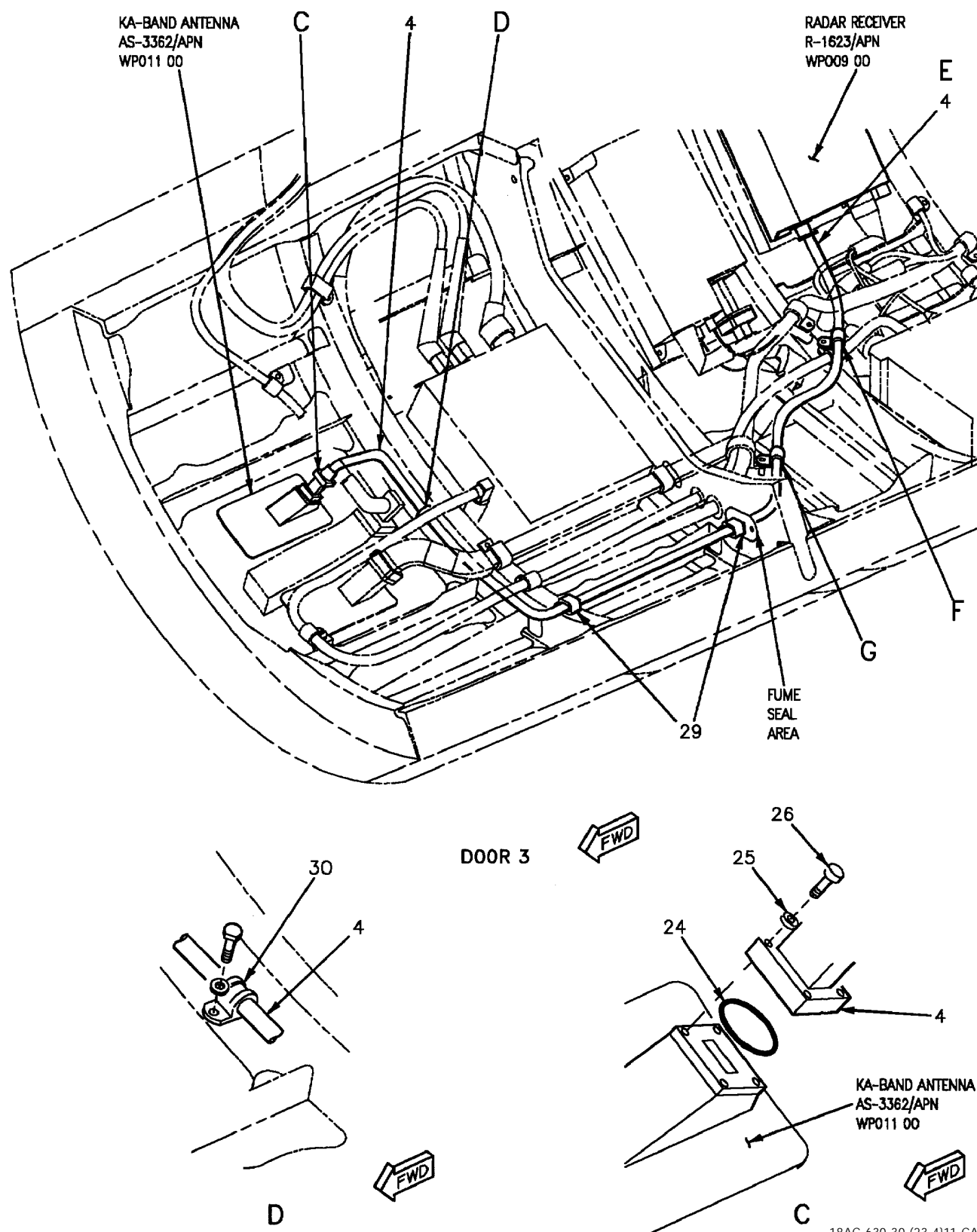
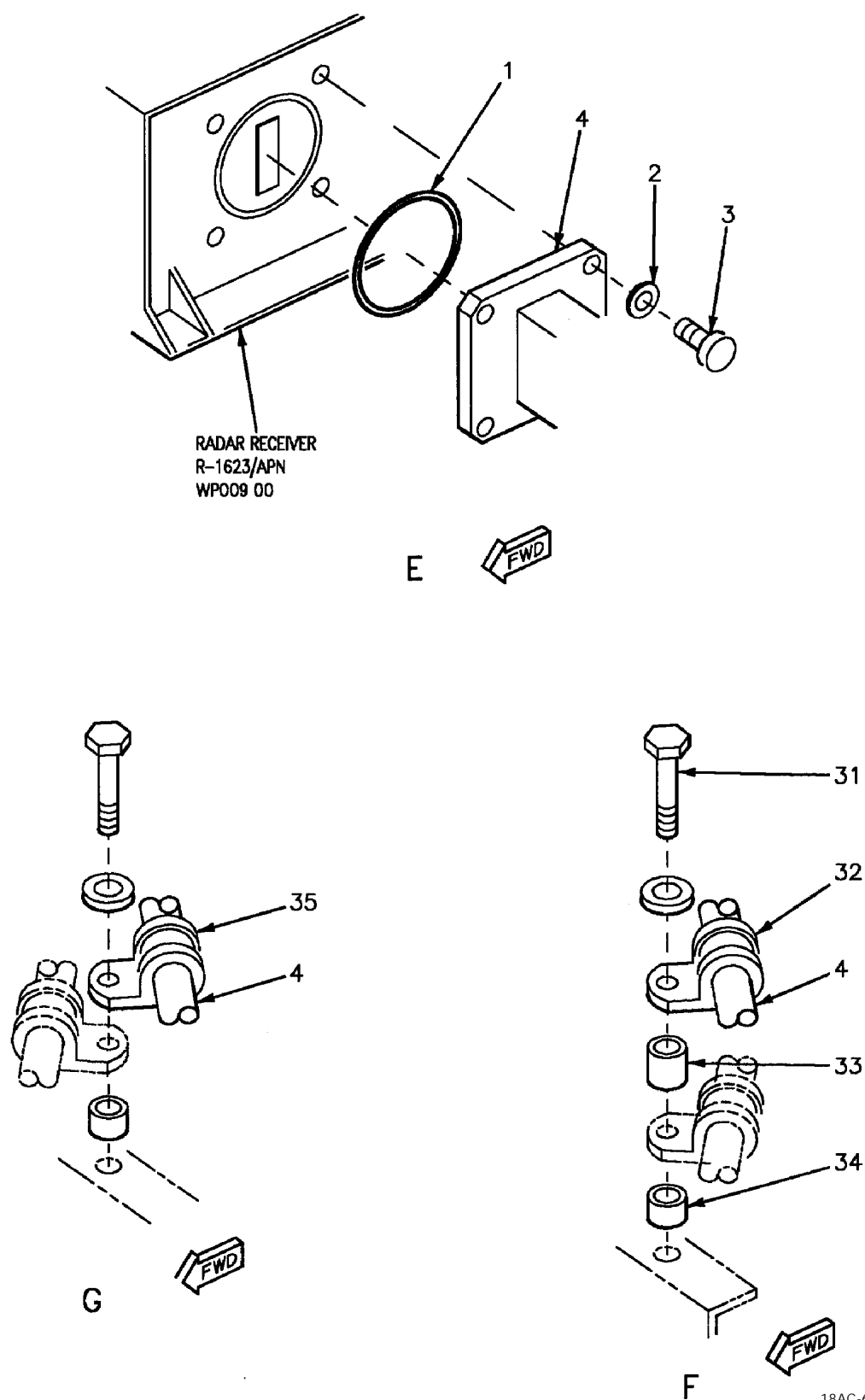


Figure 2. KA-Band Coax Cable/Waveguide Assembly (72W-B501 and 72W-B502) - 161702 AND UP (Sheet 4)



18AC-630-30-(23-5)11-CATI

Figure 2. KA-Band Coax Cable/Waveguide Assembly (72W-B501 and 72W-B502) -
161702 AND UP (Sheet 5)

INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USE ON CODE	SM&R CODE
		KA-BAND COAX CABLE/WAVEGUIDE			
		ASSEMBLY (72W-B501 AND 72W-B502)			
		161702 AND UP			
1	MS90064-10	. GASKET	1		PAOZZ
2	MS35338-135	. WASHER	4		PAOZZ
3	MS16995-10	. SCREW	4		PAOZZ
4	AE10796	. LINE SECTION, RADIO FREQUENCY	1	*	PAOZZ
		TRANSMISSION (KA-BAND COAX			
		CABLE/ WAVEGUIDE ASSEMBLY)			
		(68999) (MCDONNELL SPEC			
		74-870200-101) (72W-B502)			
	TRS41020	. WAVEGUIDE ASSEMBLY	1	*	PAOZZ
		(KA-BAND WAVEGUIDE ASSEMBLY)			
		(87864) (MCDONNELL SPEC 74J888001			
		-103) (72W-B501) (SEE FIGURE 2 FOR			
		REMOVAL AND INSTALLATION)			
5	NAS1714D3-3S	. CLAMP	1	A	PAOZZ
	MS21919WDG8	. CLAMP	1	B	PAOZZ
	NAS673V3	. BOLT (AP)	1		PAOZZ
	AN960JD10L	. WASHER (AP) ...	1		PAOZZ
	NAS42DD6-8	. SPACER (AP)	1		PAOZZ
6	NAS673V13	. BOLT	1		PAOZZ
7	AN960JD10L	. WASHER	1		PAOZZ
8	NAS42DD6-24	. SPACER	1		PAOZZ
9	NAS1714D3-3S	. CLAMP	1	A	-
	MS21919WDG6	. CLAMP	1	B	PAOZZ
10	NAS42DD6-16	. SPACER	1		PAOZZ
11	NAS1714D3-3S	. CLAMP	1	A	PAOZZ
	MS21919WDG6	. CLAMP	1	B	PAOZZ
	NAS673V3	. BOLT (AP)	1		PAOZZ
	AN960JD10L	. WASHER (AP) ...	1		PAOZZ
12	NAS673V3	. BOLT (AFT SIDE)	2	C	PAOZZ
13	AN960JD10L	. WASHER	2	C	PAOZZ
14	74A880609-1003	. SUPPORT - WAVEGUIDE, GUN	1	C	AGOOO
		BAY DOOR (76301)			
	74A880609-2011	. SPACER (76301) (USE WITH INDEX 14)	1	C	MGOZZ
	NAS1097AD3 #	. RIVET (AP)	2		-
	74A880609-2009	. SUPPORT (76301) (USE WITH INDEX 14)	1	C	MGOZZ
15	74A880609-2007	. SUPPORT (76301)	1	C	MGOZZ
16	NAS1291C3M	. NUT	2	C	PAOZZ
17	NAS1714D3-3S	. CLAMP	1	D	PAOZZ
	AN960JD10L	. WASHER (AP) ...	1		PAOZZ
	NAS673V3	. BOLT (AP)	1		PAOZZ
18	R09-2000	. GASKET (06351) (MCDONNELL SPEC	1		PAOZZ
		74-870110-233)			
19	M39012/05-0501	. CONNECTOR, PLUG (72P-B004)	1		PAOZZ
20	MS21919WDG7	. CLAMP	2		PAOZZ
	NAS673V2	. BOLT (AP)	1		PAOZZ
	AN960JD10L	. WASHER (AP) ...	1		PAOZZ
21	MS16995-17	. SCREW	4		PAOZZ
22	MS35338-136	. WASHER	4		PAOZZ
23	MS90064-12	. GASKET	1		PAOZZ
24	MS90064-10	. GASKET	1		PAOZZ
25	MS35338-135	. WASHER	4		PAOZZ
26	MS16995-10	. SCREW	4		PAOZZ
27	MS21919WDG6	. CLAMP	1	A	PAOZZ
	NAS673V3	. BOLT (AP)	1		PAOZZ
	AN960JD10L	. WASHER (AP) ...	1		PAOZZ
28	MS21919WDG6	. CLAMP	1	A	PAOZZ
	NAS673V3	. BOLT (AP)	1		PAOZZ
	AN960JD10L	. WASHER (AP) ...	1		PAOZZ
	NAS43DD6-24	. SPACER (AP)	1		PAOZZ
29	MS21919WDG5 S	. CLAMP	2		PAOZZ

Figure 2. KA-Band Coax Cable/Waveguide Assembly (72W-B501 and 72W-B502) -
161702 AND UP (Sheet 6)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
	NAS673V2	.						BOLT (AP)	1		PAOZZ
	AN960JD10LL	.						WASHER (AP) ...	1		PAOZZ
30	MS21919WDG6 \$	.						CLAMP	1		PAOZZ
	NAS673V3	.						BOLT (AP)	1		PAOZZ
	AN960JD10LL	.						WASHER (AP) ...	1		PAOZZ
31	NAS673V13 \$	.						BOLT	1		PAOZZ
	AN960JD10L	.						WASHER (USE WITH INDEX 31)	1		PAOZZ
32	NAS1714D3-3S \$	.						CLAMP	1		PAOZZ
33	NAS42DD6-24 \$	.						SPACER	1		PAOZZ
34	NAS42DD6-16 \$	.						SPACER	1		PAOZZ
35	MS21919WDG6 \$	.						CLAMP	1		PAOZZ
	NAS673V16	.						BOLT (AP)	1		PAOZZ
	AN960JD10LL	.						WASHER (AP) ...	1		PAOZZ
	NAS42DD6-48	.						SPACER (AP)	1		PAOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

\$ USE WITH AE10796

CODE	USABLE ON	MODEL
A	161702 THRU 161737	F/A-18A/B
B	161738 & UP	F/A-18A/B
C	161702 THRU 161965	F/A-18A/B
D	161966 & UP	F/A-18A/B

Figure 2. KA-Band Coax Cable/Waveguide Assembly (72W-B501 and 72W-B502) -
161702 AND UP (Sheet 7)

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****RADAR RECEIVER R-1623/APN SUPPORT ASSEMBLY
PART NO. 74A880603****RESILIENT-VIBRATION MOUNT PART NO.
T22-X22-8, HT01241-2, 23914H2****RADAR BEACON SYSTEM**

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Data Link Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-300
Radar Receiver R-1623/APN	WP009 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	3
Illustration	4
Parts List	6
Parts List	6
Radar Receiver R-1623/APN Support Assembly and Resilient-Vibration Mount, Figure 1	4
Resilient-Vibration Mount	2
Installation	3
Materials Required	2
Parts List	6
Removal	2
Support Equipment Required	2
Support Assembly	2
Installation	2
Materials Required	2
Parts List	6
Removal	2
Support Equipment Required	2

Record of Applicable Technical Directives

None

1. SUPPORT ASSEMBLY.**Support Equipment Required**

None

Materials Required

None

2. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove Radar Receiver R-1623/APN (WP009 00)

c. Disconnect lead (3, figure 1) by removing nut(5), bolt (1), and three washers (2 and 4).



To prevent damage to mount, drive pin punch must be used to keep shaft from rotating when removing support assembly.

d. Insert a drive pin punch into shaft of mount (10).

e. Remove attaching parts securing support assembly (6) to mounts (10).

f. Remove support assembly (6).

3. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Inspect four mounts (10, figure 1) for integrity. If mounts are to be removed, refer to RESILIENT-VIBRATION MOUNT, this WP.



To prevent damage to mount, drive pin punch must be used to keep shaft from rotating when installing support assembly.

c. Insert a drive pin punch into shaft of mount (10).

d. Secure support assembly (6) to four mounts (10) using attaching parts.

e. Prepare mating surfaces of mounting base (6) for electrical bonding (A1-F18AC-LMM-000).

f. Secure lead (3) to support assembly (6) with bolt (1), three washers (2 and 4) and nut (5).

g. Apply sealant to bolt (1), three washers (2 and 4), lead (3), and nut (5) (A1-F18AC-LMM-000).

h. Install Radar Receiver R-1623/APN (WP009 00)4. RESILIENT-VIBRATION MOUNT.

4. RESILIENT-VIBRATION MOUNT.**Support Equipment Required**

None

Materials Required

None

5. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove Radar Receiver R-1623/APN (WP009 00).

c. Remove support assembly (6, figure 1). Refer to SUPPORT ASSEMBLY, this WP.

d. If mount (10) is to be removed and is located on forward side or upper aft side of support assembly (6), do the substeps below:

(1) Support mount (10) and remove attaching parts, and shim (11).

(2) Remove mount (10).

e. If mount (10) is to be removed and is located on lower aft side of support assembly (6), do substeps below (See detail A):

(1) Support mount (10).

(2) From inside of door 3, remove attaching parts.

(3) From outside of door 3, remove attaching parts through vent.

(4) Remove mount (10) and shim (11).

6. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

NOTE

When installing mounts, make sure drive pin hole in mount is facing up.

b. If mount (10) is to be installed and is located on forward side or upper aft side of support assembly (6), do substeps below:

(1) Secure mount (10) to door with shim (11), and attaching parts.

(2) Apply sealant around mount (10), shim (11), and attaching parts (A1-F18AC-LMM-000).

c. If mount (10) is to be installed and is located on lower aft side of support assembly (6), do substeps below (See detail A):

(1) From inside of door 3, attach mount (10) and shim (11) to door with attaching parts. Support mount (10).

(2) From outside of door 3, install attaching parts through vent.

(3) Apply sealant around mount (10), shim (11), and attaching parts (A1-F18AC-LMM-000).

d. Install support assembly (6). Refer to SUPPORT ASSEMBLY, this WP.

e. Install Radar Receiver R-1623/APN (WP009 00).

7. ILLUSTRATED PARTS BREAKDOWN.

8. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

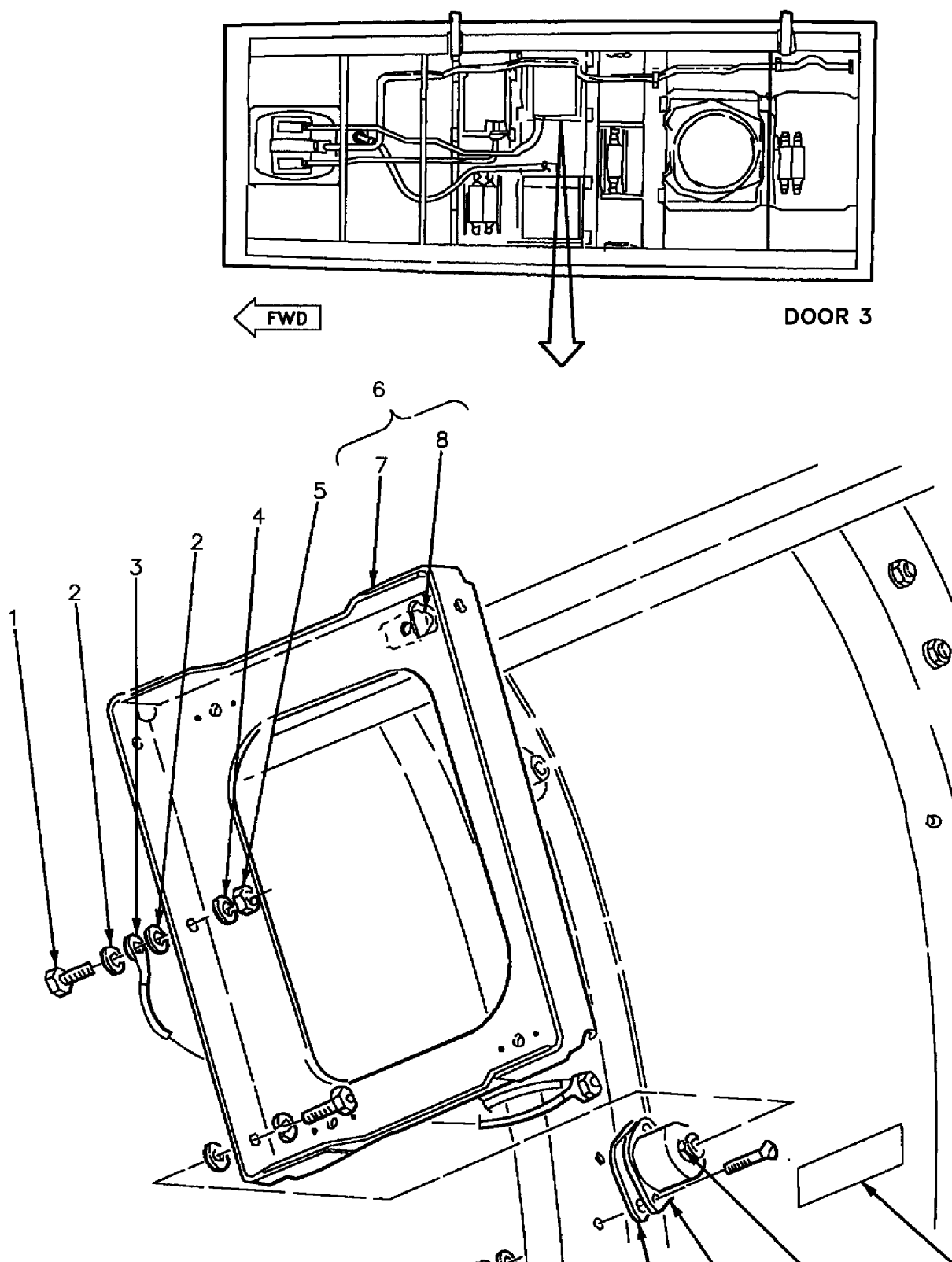


Figure 1. Radar Receiver R-1623/APN Support Assembly and Resilient-Vibration Mount (Sheet 1)

18AC-630-30-(11-1)09-SCAN

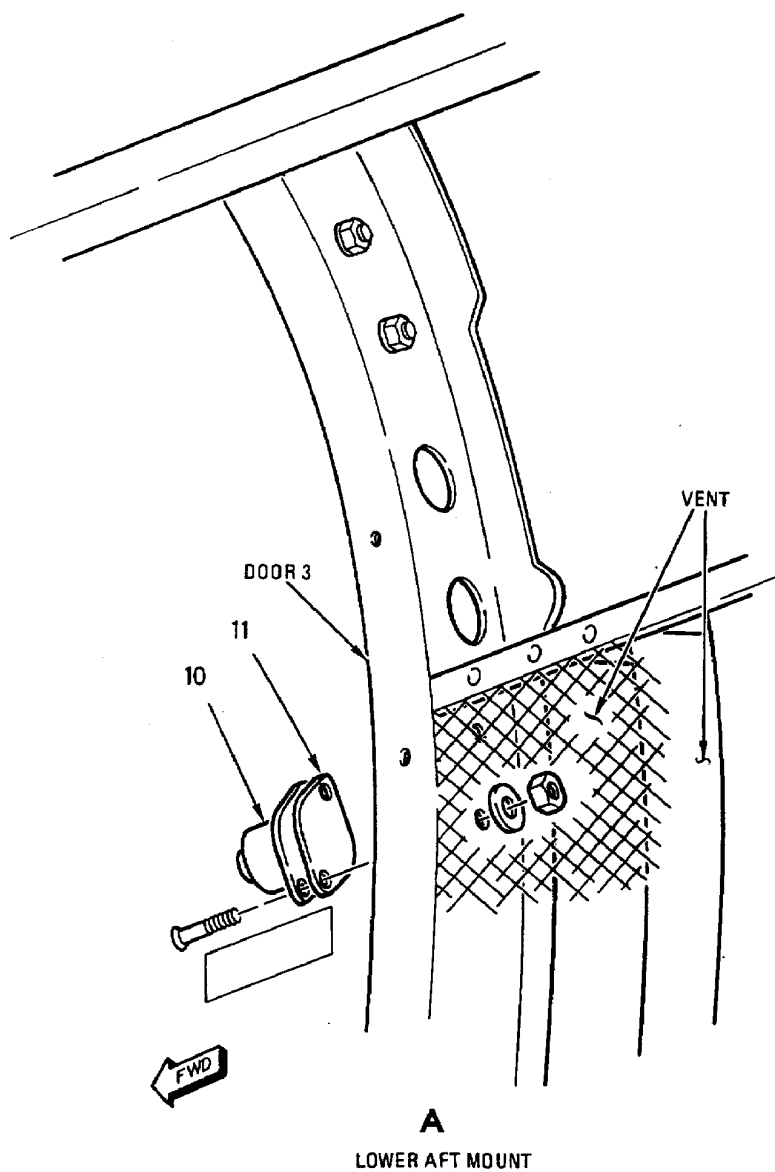


Figure 1. Radar Receiver R-1623/APN Support Assembly and Resilient-Vibration Mount (Sheet 2)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RADAR RECEIVER R-1623/APN									
		SUPPORT ASSEMBLY AND RESILIENT									
		VIBRATION MOUNT									
1	NAS673V2	.	BOLT	.	.	.	.	.	1		PAOZZ
2	AN960JD10LL	.	WASHER	.	.	.	.	.	2		PAOZZ
3	MS25083-2BB4	.	LEAD, ELECTRICAL	.	.	.	.	.	1		PAOZZ
4	MS35338-43	.	WASHER	.	.	.	.	.	1		PAOZZ
5	NAS679A3W	.	NUT	.	.	.	.	.	1		PAOZZ
6	74A880603-1003	.	SUPPORT ASSY (RADAR	.	.	.	.	.	1		XBOOO
			AUGMENTER RECEIVER, R-1623|APN								
			(RADAR RECEIVER R1623/APN								
			SUPPORT ASSEMBLY) (76301)								
	NAS1801-3-10	.	SCREW (AP)	.	.	.	.	.	4		PAOZZ
	MS35338-43	.	WASHER (AP)	.	.	.	.	.	4		PAOZZ
	AN960JD10	.	WASHER (AP)	.	.	.	.	.	4		PAOZZ
7	74A880603-2003	.	SUPPORT (76301)	.	.	.	.	.	1		MDOZZ
8	F50339-4-1	.	NUT, PLATE (15653) (MCDONNELL	.	.	.	.	.	4	*	PAOZZ
			SPEC ST3N719C4M1)								
	F12090-1-4	.	NUT, PLATE (72962) (MCDONNELL	.	.	.	.	.	4	*	PAOZZ
			SPEC ST3M719C4M1)								
	MS20426AD3 #	.	RIVET (AP)	.	.	.	.	.	2		-
9	74A890007-2003	.	PLATE, IDENTIFICATION - NOSE	.	.	.	.	.	1		MDOZZ
			EQUIP (76301)								
10	T22-X22-2	.	MOUNT, RESILIENT (RESILIENT	.	.	.	.	.	4	A*	PAOZZ
			VIBRATION MOUNT) (81860)								
			(MCDONNELL SPEC 9M686-2)								
	HT01241-2	.	MOUNT, RESILIENT (RESILIENT	.	.	.	.	.	4	B*	PAOZZ
			VIBRATION MOUNT) (76005)								
			(MCDONNELL SPEC ST9M626H2)								
	23914H2	.	MOUNT, RESILIENT (RESILIENT	.	.	.	.	.	4	B*	PAOZZ
			VIBRATION MOUNT) (81860)								
			(MCDONNELL SPEC ST9M626K2)								
	NAS1218-3-3	.	SCREW (AP)	.	.	.	.	.	8	A	PAOZZ
	HT4024L3-13	.	SCREW, CLOSE TOLERANCE	.	.	.	.	.	8	B	PAOZZ
			(AP) (73197) (MCDONNELL SPEC								
			ST3M455-3L13-1)								
	AN960JD10L	.	WASHER (AP)	.	.	.	.	.	8		PAOZZ
	NAS1291C3M	.	NUT (AP)	.	.	.	.	.	8		PAOZZ
11	74A880604-2005	.	SHIM (76301)	.	.	.	.	.	4		MGOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

CODE	USABLE ON	MODEL
A	161353 THRU 161761	F/A-18A/B
B	161925 & UP	F/A-18A/B

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RADAR RECEIVER R-1623/APN									
		SUPPORT ASSEMBLY AND RESILIENT									
		VIBRATION MOUNT									
1	NAS673V2	.	BOLT	.	.	.	.	.	1		PAOZZ
2	AN960JD10LL	.	WASHER	.	.	.	.	.	2		PAOZZ
3	MS25083-2BB4	.	LEAD, ELECTRICAL	.	.	.	.	.	1		PAOZZ
4	MS35338-43	.	WASHER	.	.	.	.	.	1		PAOZZ
5	NAS679A3W	.	NUT	.	.	.	.	.	1		PAOZZ
6	74A880603-1003	.	SUPPORT ASSY (RADAR	.	.	.	.	.	1		XBOOO
			AUGMENTER RECEIVER, R-1623|APN								
			(RADAR RECEIVER R1623/APN								
			SUPPORT ASSEMBLY) (76301)								
	NAS1801-3-10	.	SCREW (AP)	.	.	.	.	.	4		PAOZZ
	MS35338-43	.	WASHER (AP)	.	.	.	.	.	4		PAOZZ
	AN960JD10	.	WASHER (AP)	.	.	.	.	.	4		PAOZZ
7	74A880603-2003	.	SUPPORT (76301)	.	.	.	.	.	1		MDOZZ
8	F50339-4-1	.	NUT, PLATE (15653) (MCDONNELL	.	.	.	.	.	4	*	PAOZZ
			SPEC ST3N719C4M1)								
	F12090-1-4	.	NUT, PLATE (72962) (MCDONNELL	.	.	.	.	.	4	*	PAOZZ
			SPEC ST3M719C4M1)								
	MS20426AD3 #	.	RIVET (AP)	.	.	.	.	.	2		-
9	74A890007-2003	.	PLATE, IDENTIFICATION - NOSE	.	.	.	.	.	1		MDOZZ
			EQUIP (76301)								
10	T22-X22-2	.	MOUNT, RESILIENT (RESILIENT	.	.	.	.	.	4	A*	PAOZZ
			VIBRATION MOUNT) (81860)								
			(MCDONNELL SPEC 9M686-2)								
	HT01241-2	.	MOUNT, RESILIENT (RESILIENT	.	.	.	.	.	4	B*	PAOZZ
			VIBRATION MOUNT) (76005)								
			(MCDONNELL SPEC ST9M626H2)								
	23914H2	.	MOUNT, RESILIENT (RESILIENT	.	.	.	.	.	4	B*	PAOZZ
			VIBRATION MOUNT) (81860)								
			(MCDONNELL SPEC ST9M626K2)								
	NAS1218-3-3	.	SCREW (AP)	.	.	.	.	.	8	A	PAOZZ
	HT4024L3-13	.	SCREW, CLOSE TOLERANCE	.	.	.	.	.	8	B	PAOZZ
			(AP) (73197) (MCDONNELL SPEC								
			ST3M455-3L13-1)								
	AN960JD10L	.	WASHER (AP)	.	.	.	.	.	8		PAOZZ
	NAS1291C3M	.	NUT (AP)	.	.	.	.	.	8		PAOZZ
11	74A880604-2005	.	SHIM (76301)	.	.	.	.	.	4		MGOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

CODE	USABLE ON	MODEL
A	161353 THRU 161761	F/A-18A/B
B	161925 & UP	F/A-18A/B

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

RT-1028/APN-202 ELECTRICAL EQUIPMENT MOUNTING BASE
PART NO. 74A880604

RESILIENT-VIBRATION MOUNT PART NO.
T22-X22-2, HT01241-2, UT01243-2, 23914-2, 23914H2, 23914U2A

RADAR BEACON SYSTEM

Reference Material

Line Maintenance Procedures A1-F18AC-LMM-000
Data Link Instrument Landing, and Radar Beacon Systems A1-F18AC-630-300
Radar Receiver-Transmitter RT-1028/APN-202 WP008 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	3
Illustration	4
Parts List	5
Parts List	5
Resilient-Vibration Mount	2
Installation	3
Materials Required	2
Parts List	5
Removal	2
Support Equipment Required	2
RT-1028/APN-202 Electrical Equipment Mounting Base	2
Installation	2
Materials Required	2
Parts List	5
Removal	2
Support Equipment Required	2
RT-1028/APN-202 Electrical Equipment Mounting Base Resilient-Vibration Mount, Figure 1	4

Record of Applicable Technical Directives

None

1. RT-1028/APN-202 ELECTRICAL EQUIPMENT MOUNTING BASE.**Support Equipment Required**

None

Materials Required

None

2. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove Radar Receiver-Transmitter RT-1028/APN-202 (WP008 00).



To prevent damage to mounts, drive pin punch must be used to keep shaft from rotating when removing bolts.

c. Insert a drive pin punch into shaft of mounts (2 and 6, figure 1).

d. Remove four bolts (15) and four washers (16).

e. Disconnect lead (14) by removing nut (8), four washers (11 and 12), and bolt (13).

f. Remove mounting base (21).

3. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Inspect mounts (2 and 6, figure 1) for integrity. If mounts are to be removed, refer to RESILIENT-VIBRATION MOUNT, this WP.

c. Prepare mating surfaces of mounting base (21) for electrical bonding (A1-F18AC-LMM-000).

d. Secure lead (14) to mounting base (21) with bolt (13), four washers (11 and 12), and nut (8) and seal (A1-F18AC-LMM-000).

To prevent damage to mounts, drive pin punch must be used to keep shaft from rotating when installing bolts.

e. Insert a drive pin punch into shaft of mount (2 and 6).

f. Secure mounting base (21) to mounts (2 and 6) with four bolts (15) and four washers (16).

g. Install Radar Receiver-Transmitter RT-1028/APN-202 (WP008 00).

4. RESILIENT-VIBRATION MOUNT.**Support Equipment Required**

None

Materials Required

None

5. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove Radar Receiver-Transmitter RT-1028/APN-202 (WP008 00).

c. Remove mounting base (21, figure 1). Refer to RT-1028/APN-202 ELECTRICAL EQUIPMENT MOUNTING BASE, this WP.

d. For mounts (2) located on forward side of mounting base (15), do substeps below:

(1) Remove two screws (1), two washers (3), and two nuts (4).

(2) Remove mount (2).

e. For mounts (6) located on aft side of mounting base (21), do substeps below:

(1) On aft end of door, remove two screws (5), two washers (9), two nuts (10), and shim (7).

(2) Remove mount (6).

6. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

NOTE

When installing mounts, make sure drive pin hole in mount is facing up.

b. For mounts (2) located on forward side of mounting base (15), do substeps below:

(1) Secure mount (2) to door with two screws (1), two washers (3), and two nuts (4).

(2) Apply sealant around mount (2), two screws (1), two washers (3), and two nuts (4) (A1-F18AC-LMM-000).

c. For mounts (6) located on aft side of mounting base (21), do substeps below:

(1) Secure mount (6) to door with two screws (5), shim (7), two washers (9), and two nuts (10).

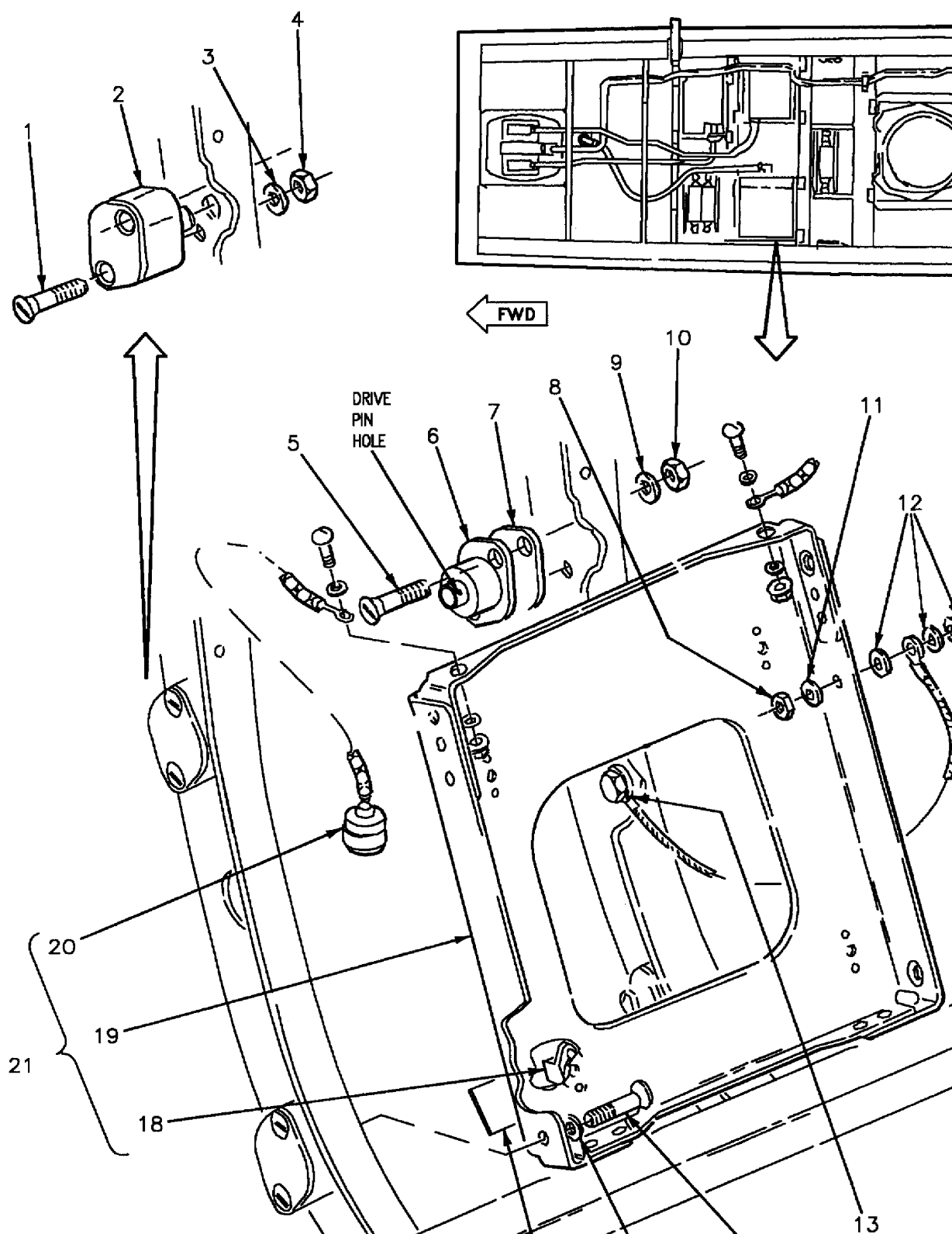
(2) Apply sealant around mount (6), two screws (1), two washers (9), and two nuts (10) (A1-F18AC-LMM-000).

d. Install mounting base (21). Refer to RT-1028/APN-202 ELECTRICAL EQUIPMENT MOUNTING BASE, this WP.

e. Install Radar Receiver-Transmitter RT-1028/APN-202 (WP008 00).

7. ILLUSTRATED PARTS BREAKDOWN.

8. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.



18AC-630-30-(10-1)09-SCAN

Figure 1. RT-1028/APN-202 Electrical Equipment Mounting Base and Resilient-Vibration Mount (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USE ON CODE	SM&R CODE
		RT-1028/APN-202 ELECTRICAL EQUIPMENT MOUNTING BASE AND RESILIENT-VIBRATION MOUNT			
1	HT4024L3-12	. SCREW, CLOSE TOLERANCE (73197) (MCDONNELL SPEC ST3M455-3L12-1)	4	A	PAOZZ
	HT4024L3-13	. SEE ABOVE (MCDONNELL SPEC ST3M455-3L13-1)	4	B	PAOZZ
2	UT01243-2	. MOUNT, RESILIENT (RESILIENT VIBRATION MOUNT) (76005) (MCDONNELL SPEC ST9M626U2A)	2	*	PAOZZ
	23914U2A	. MOUNT, RESILIENT (RESILIENT VIBRATION MOUNT) (81860) (MCDONNELL SPEC ST9M626U2A)	2	*	PAOZZ
	23914-2	. MOUNT, RESILIENT (RESILIENT VIBRATION MOUNT) (81860) (MCDONNELL SPEC ST9M626U2A)	2	*	PAOZZ
3	AN960JD10L	. WASHER	4		PAOZZ
4	NAS1291C3M	. NUT	4		PAOZZ
5	HT4024L3-12	. SCREW, CLOSE TOLERANCE (73197) (MCDONNELL SPEC ST3M455-3L12-1)	4	A	PAOZZ
	HT4024L3-13	. SEE ABOVE (MCDONNELL SPEC ST3M455-3L13-1)	4	B	PAOZZ
6	T22-X22-2	. MOUNT, RESILIENT (RESILIENT VIBRATION MOUNT) (81860) (MCDONNELL SPEC 9M686-2)	2	A	PAOZZ
	HT01241-2	. MOUNT, RESILIENT (RESILIENT VIBRATION MOUNT) (76005) (MCDONNELL SPEC ST9M626H2)	2	B*	PAOZZ
	23914H2	. MOUNT, RESILIENT (RESILIENT VIBRATION MOUNT) (81860) (MCDONNELL SPEC ST9M626H2)	2	B*	PAOZZ
7	74A880604-2005	. SHIM (76301)	2		MGOZZ
8	NAS679A3W	. NUT	2		PAOZZ
9	AN960JD10L	. WASHER	4		PAOZZ
10	NAS1291C3M	. NUT	4		PAOZZ
11	MS35338-43	. WASHER	2		PAOZZ
12	AN960JD10L	. WASHER	6		PAOZZ
13	NAS673V2	. BOLT	2		PAOZZ
14	MS25083-2BB4	. LEAD, ELECTRICAL	1		PAOZZ
15	NAS1801-3-8	. SCREW	4		PAOZZ
16	AN960JD10L	. WASHER	4		PAOZZ
17	74A890007-2007	. PLATE, IDENTIFICATION - NOSE EQUIP (76301)	1		MDOZZ
18	MS21060L08	. NUT, PLATE	4		PAOZZ
	MS20426AD3 #	. RIVET (AP)	2		-
19	74A880604-2011	. SUPPORT (76301)	1		MDOZZ
20	31-4521-2	. COVER, ELECTRICAL CONNECTOR (74868) (MCDONNELL SPEC ST5M1418S001)	2	*	PAOZZ
	KA89-36	. SEE ABOVE (91836)	2	*	PAOZZ
	150276-1002	. SEE ABOVE (91737)	2	*	PAOZZ
	1232-000-A000-6	. SEE ABOVE (00796)	2	*	PAOZZ
	NAS1218-08E2	. BOLT (AP)	1		PAOZZ
	AN960C8L	. WASHER (AP)	1		PAOZZ
	NAS1291C08M	. NUT (AP)	1		PAOZZ
21	74A880604-1005	. MOUNTING BASE, ELECTRICAL EQUIPMENT - RT-1028/APN-202 (76301)	1		XBOOO

**Figure 1. RT-1028/APN-202 Electrical Equipment Mounting Base
and Resilient-Vibration Mount (Sheet 2)**

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

CODE	USABLE ON	MODEL
A	161353 THRU 161761	F/A-18A/B
B	161924 & UP	F/A-18A/B

Figure 1. RT-1028/APN-202 Electrical Equipment Mounting Base
and Resilient-Vibration Mount (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

BAND PASS FILTER F-1472/ARC
(77FLF003 OR 77FLE003)

DATA LINK SYSTEM

Reference Material

Line Maintenance Access Doors	A1-F18AC-LMM-010
Line Maintenance Procedures	A1-F18AC-LMM-000
Data Link Instrument Landing, and Radar Beacon Systems	A1-F18AC-630-200
Data Link System Testing - Functional Test	WP014 00
Weapon Control Systems	A1-F18AC-740-300
Command Launch Computer CP-1001/AWG	WP010 00
Tactical Electronic Warfare Systems	A1-F18AC-760-300
Receiver-Transmitter RT-1079/ALQ-126	WP010 00
Photographic System	A1-F18AC-770-300
Audio Visual Recorder RO-545/AXQ or RO-570/AXQ	WP005 00

Alphabetical Index

Subject	Page No.
Band Pass Filter F-1472/ARC (77FLF003) - F/A-18A	2
Installation	2
Materials Required	2
Parts List	5
Removal	2
Support Equipment Required	2
Band Pass Filter F-1472/ARC (77FLF003) - F/A-18A, Figure 1	4
Band Pass Filter F-1472/ARC (77FLE003) - F/A-18B	2
Installation	3
Materials Required	2
Parts List	7
Removal	2
Support Equipment Required	2
Band Pass Filter F-1472/ARC (77FLE003) - F/A-18B, Figure 2.	6
Illustrated Parts Breakdown	3
Illustration	
F/A-18A	4
F/A-18B	6
Parts List	
F/A-18A	5

Alphabetical Index (Continued)

Subject	Page No.
F/A-18B	7

Record of Applicable Technical Directives

Type/ Number	Date	Title and ECP No.	Date Incorp.	Remarks
F/A-18 AFC 54	2 May 89	Incorporation of Video Recording System (ECP MDA-F/A-18-00027)	15 Dec 86	

1. **BAND PASS FILTER F-1472/ARC (77FLF003) - F/A-18A.****Support Equipment Required**

None

Materials Required**Specification or Part
Number****Nomenclature**MS20995NC20
(CAGE 96906)

Lockwire

2. **REMOVAL.**

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door 13R (A1-F18AC-LMM-010).

c. Remove Command Launch Computer CP-1001/AWG (A1-F18AC-740-300, WP010 00).

d. Remove lockwire and disconnect connectors (3 and 6, figure 1).

e. Support filter (1) and remove three bolts (5) and three washers (4).

f. Remove filter (1).

3. **INSTALLATION.**

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Prepare mounting surfaces for electrical bonding (A1-F18AC-LMM-000).

c. Secure filter (1, figure 1) to top of equipment bay with three bolts (5) and three washers (4).

d. Connect connectors (3 and 6) and secure with lockwire.

e. Apply sealant to three bolts (5) and three washers (4) (A1-F18AC-LMM-000).

f. Install Command Launch Computer CP-1001/AWG (A1-F18AC-740-300, WP010 00).

g. Close door 13R (A1-F18AC-LMM-010).

h. Do Data Link System Functional Test (A1-F18AC-630-200, WP014 00).

4. **BAND PASS FILTER F-1472/ARC (77FLE003) - F/A-18B.****Support Equipment Required**

None

Materials Required**Specification or Part
Number****Nomenclature**MS20995NC20
(CAGE 96906)

Lockwire

5. **REMOVAL.**

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door 14L (A1-F18AC-LMM-010).

c. Remove Receiver-Transmitter
RT-1079()/ALQ-126 (A1-F18AC-760-300, WP010 00).

d. On F/A-18B 161704 AND UP; ALSO 161354
THRU 161360 AFTER F/A-18 AFC 54, with Audio
Visual Recorder RO-545/AXQ or RO-570/AXQ
installed, remove Audio Visual Recorder RO-545/AXQ
or RO-570/AXQ (A1-F18AC-770-300, WP005 00).

e. Remove lockwire and disconnect connectors (2
and 6, figure 2).

f. Support filter (5) and remove three bolts (4)
and three washers (3).

g. Remove filter (5).

6. INSTALLATION.

a. Make sure electrical power is off (A1-F18AC-
LMM-000).

b. Prepare mounting surfaces for electrical bonding
(A1-F18AC-LMM-000).

c. Connect inboard connector (6, figure 2) and
secure with lockwire.

d. Secure filter (5) to top of equipment bay with
three bolts (4) and three washers (3).

e. Connect outboard connector (2) and secure with
lockwire.

f. Apply sealant to three bolts (4) and three wash-
ers (3) (A1-F18AC-LMM-000).

g. Install Receiver-Transmitter
RT-1079()/ALQ-126, if required (A1-F18AC-760-300,
WP010 00).

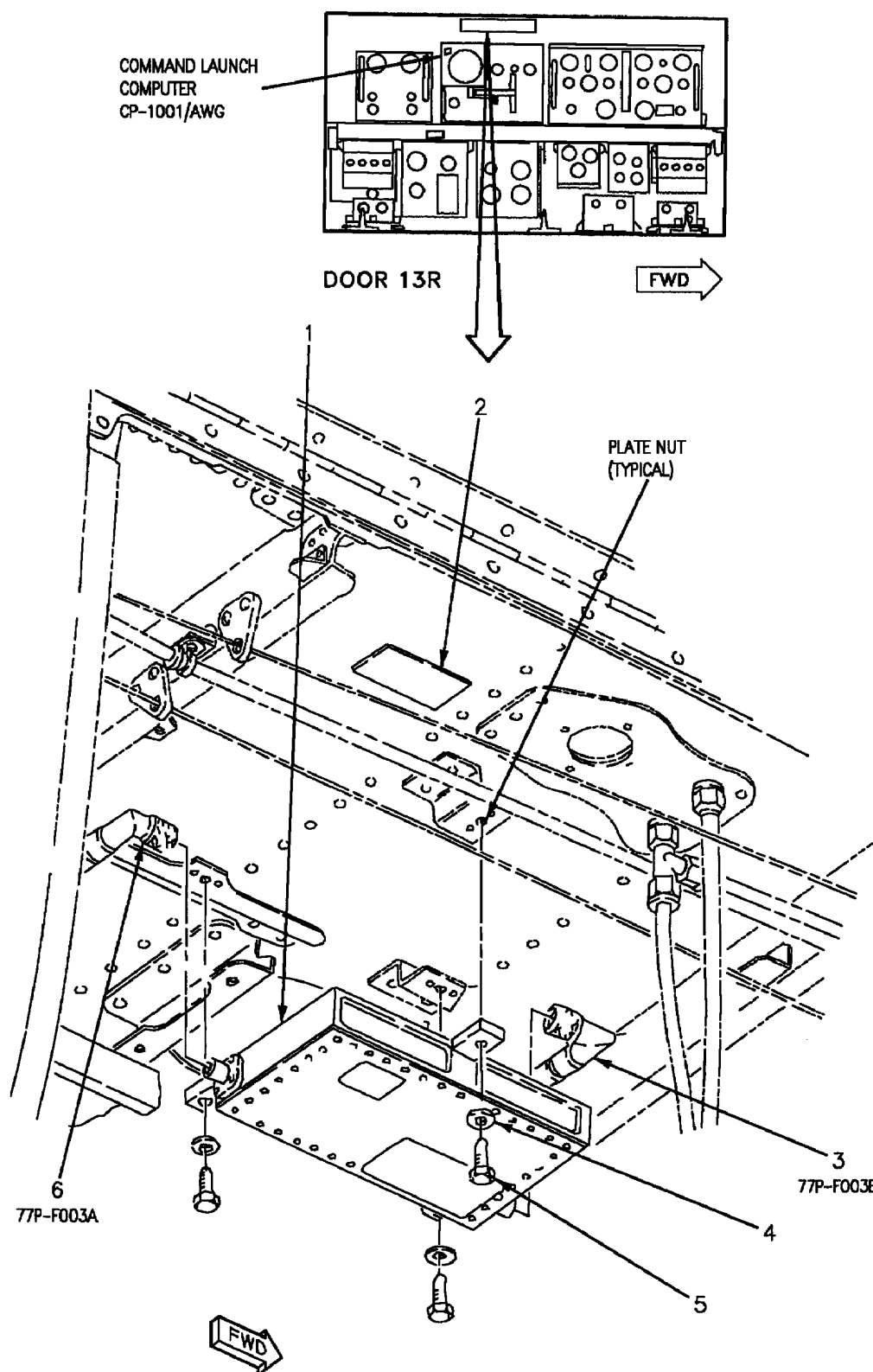
h. On F/A-18B 161704 AND UP; ALSO 161354
THRU 161360 AFTER F/A-18 AFC 54, if Audio
Visual Recorder RO-545/AXQ or RO-570/AXQ was
removed, install Audio Visual Recorder RO-545/AXQ
or RO-570/AXQ (A1-F18AC-770-300, WP005 00).

i. Close door 14L (A1-F18AC-LMM-010).

j. Do Data Link System Functional Test
(A1-F18AC-630-200, WP014 00).

7. ILLUSTRATED PARTS BREAKDOWN.

8. This illustrated parts breakdown has data required
for identifying and ordering parts. The manual
introduction has more information on IPB data.



18AC-630-30-(7-1)09-SCAN

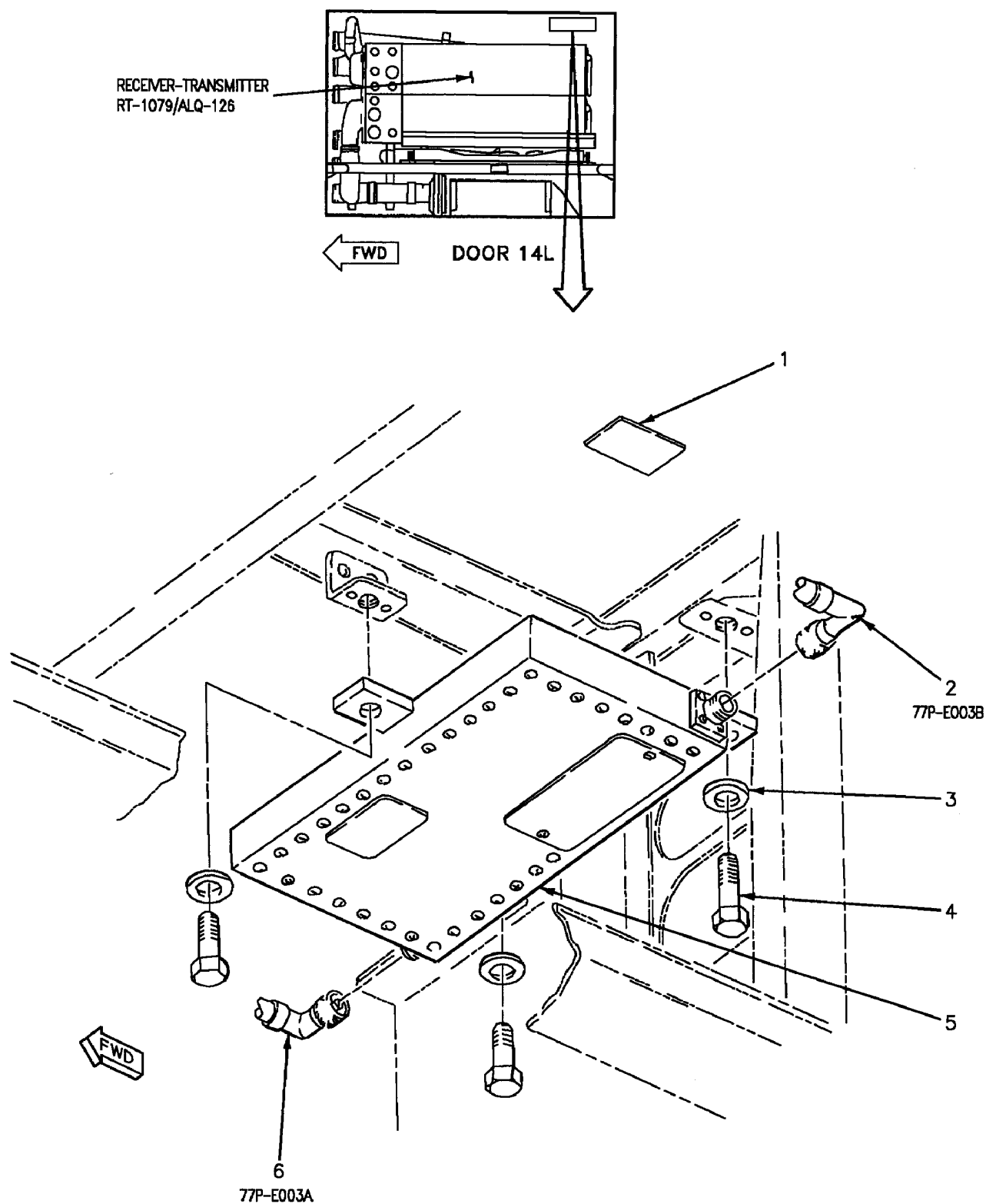
Figure 1. Band Pass Filter F-1472/ARC (77FLF003) - F/A-18A (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USE ON CODE	SM&R CODE
		BAND PASS FILTER F-1472/ARC			
		(77FLF003) - F/A-18A			
1	U128-1	. FILTER, BAND PASS F-1472/ARC	1		PAOZZ
		(28979) (MCDONNELL SPEC			
		74-870060-101) (77FLF003)			
2	74A890009-2065	. PLATE, IDENTIFICATION - BAY 3R	1	A	MGOZZ
		(76301)			
	74A890009-2025	. SEE ABOVE	1	B	MGOZZ
3	31-3229-1001	. CONNECTOR, PLUG, ELECTRICAL	1	*	PAOZZ
		(74868) (MCDONNELL SPEC			
		ST5M1348TR1B) (77P-F003B)			
	126-1-1	. SEE ABOVE (91836)	1	*	PAOZZ
	1207-034-A00E-1	. SEE ABOVE (00795)	1	*	PAOZZ
4	AN960C10L	. WASHER	3		PAOZZ
5	NAS673V5	. BOLT	3		PAOZZ
6	M39012/30-0503	. CONNECTOR, PLUG (77P-F003A)	1		PAOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

CODE	USABLE ON	MODEL
A	161950 AND UP	F/A-18A
B	161353 THRU 161949	F/A-18A

Figure 1. Band Pass Filter F-1472/ARC (77FLF003) - F/A-18A (Sheet 2)



18AC-630-30-(17-1)09-SCAN

Figure 2. Band Pass Filter F-1472/ARC (77FLE003) - F/A18B (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		BAND PASS FILTER F-1472/ARC									
		(77FLE003) F/A-18B									
1	74A890006-2025	.	PLATE, IDENTIFICATION - BAY						1	A	MDOZZ
			3R (76301)								
	74A890006-2035	.	PLATE, IDENTIFICATION - BAY						1	B	MDOZZ
			4L (76301)								
2	31-4371-3001	.	CONNECTOR, PLUG, ELECTRICAL						1	*	PAOZZ
			(74868) (MCDONNELL SPEC								
			ST5M1332-101) (77P-E003B)								
	126-6-1	.	SEE ABOVE (91836)						1	*	PAOZZ
	1207-079-A00E-1	.	SEE ABOVE (00795)						1	*	PAOZZ
3	AN960C10L	.	WASHER						3		PAOZZ
4	NAS673V5	.	BOLT						3		PAOZZ
5	U128-1	.	FILTER, BAND PASS F-1472/ARC						1		PAOZZ
			(28979) (MCDONNELL SPEC						1		PAOZZ
			74-870060-101) (77FLE003)								
6	31-4371-3009	.	CONNECTOR, PLUG, ELECTRICAL						1	*	PAOZZ
			(74868) (MCDONNELL SPEC								
			ST5M1332-001) (77P-E003A)								
	1207-079-A00E	.	SEE ABOVE (00795)						1	*	PAOZZ
	126-6	.	SEE ABOVE (91836)						1	*	PAOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

CODE	USABLE ON	MODEL
A	161354 THRU 161357	F/A-18B
B	161360 & UP	F/A-18B

Figure 2. Band Pass Filter F-1472/ARC (77FLE003) - F/A18B (Sheet 2)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

RECEIVER-TRANSMITTER-PROCESSOR RT-1379()/ASW
(77A-L001 OR 77A-K001)

DATA LINK SYSTEM

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Data Link, Instrument Landing, and Radar Beacon Systems	A1-F18AC630-200
Data Link System Functional Test	WP014 00

Alphabetical Index

Subject	Page No.
Address Switch Selection, Figure 4	13
Illustrated Parts Breakdown	4
Illustration	
F/A-18A 161353 THRU 161528	5
F/A-18A 161702 AND UP	7
F/A-18B	10
Parts List	
F/A-18A 161353 THRU 161528	6
F/A-18A 161702 AND UP	9
F/A-18B	11
Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A 161353 THRU 161528	2
Installation	2
Materials Required	2
Parts List	6
Removal	2
Support Equipment Required	2
Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A 161353 THRU 161528, Figure 1	5
Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A 161702 AND UP	3
Installation	3
Materials Required	3
Parts List	9
Removal	3
Support Equipment Required	3
Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A 161702 AND UP, Figure 2	7
Receiver-Transmitter-Processor RT-1379()/ASW (77A-K001) - F/A-18B	3

Alphabetical Index (Continued)

Subject	Page No.
Installation	4
Materials Required	3
Parts List	11
Removal	3
Support Equipment Required	3
Receiver-Transmitter-Processor RT-1379()/ASW (77A-K001) - F/A-18B, Figure 3	10

Record of Applicable Technical Directives

None

1. RECEIVER-TRANSMITTER-PROCESSOR RT-1379()/ASW (77A-L001) - F/A-18A 161353 THRU 161528.

Support Equipment Required

None

Materials Required

Specification or Part Number	Nomenclature
MS20995NC32 (CAGE 96906)	Lockwire

2. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove EMI cover assembly (A1-F18AC-LMM-000).

c. Remove lockwire and disconnect connectors (9 and 10, figure 1).

d. Unfasten two bolts (7).

e. Slide receiver-transmitter-processor (3) inboard for access to connectors (1 and 2).

f. Remove lockwire from connector (1) and disconnect connectors (1 and 2).

g. Remove receiver-transmitter-processor (3).

3. INSTALLATION.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. On receiver-transmitter-processor (3, figure 1), set address switches (figure 4) to assigned aircraft address.
- c. Clean contact strip (6, figure 1) and electrical bonding area of receiver-transmitter-processor (3) for electrical bond (A1-F18AC-LMM-000).
- d. Connect connectors (1 and 2) to rear of receiver-transmitter-processor (3). Safety connector (1) with lockwire.
- e. Slide receiver-transmitter-processor (3) outboard until pins (4) are securely engaged.
- f. Secure receiver-transmitter-processor (3) with two bolts (7).
- g. Connect connectors (9 and 10) to receiver-transmitter-processor (3). Safety with lockwire.
- h. Install EMI cover assembly (A1-F18AC-LMM-000).
- i. Do Data Link System Functional Test (A1-F18AC-630-200, WP014 00).

4. RECEIVER-TRANSMITTER-PROCESSOR RT-1379()/ASW (77A-L001) - F/A-18A 161702 AND UP.

Support Equipment Required

None

Materials Required

Specification or Part Number	Nomenclature
MS20995NC32 (CAGE 96906)	Lockwire

5. REMOVAL.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Remove EMI cover assembly (A1-F18AC-LMM-000).
- c. Remove lockwire and disconnect connectors (8 and 9, figure 2).
- d. Unfasten two bolts (2).
- e. Slide receiver-transmitter-processor (1) aft for access to connectors (5 and 6).
- f. Remove lockwire from connector (6) and disconnect connectors (5 and 6).
- g. Remove receiver-transmitter-processor (1).

6. INSTALLATION.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. On receiver-transmitter-processor (1, figure 2), set address switches (figure 4) to assigned aircraft address.
- c. Clean contact strip (figure 2) and electrical bonding area of receiver-transmitter-processor (1) for electrical bond (A1-F18AC-LMM-000).
- d. Connect connectors (5 and 6) to receiver-transmitter-processor (1). Safety connector (6) with lockwire.

- e. Slide receiver-transmitter-processor (1) forward on support assembly until pins (3) are securely engaged.
- f. Secure receiver-transmitter-processor (1) to support assembly with two bolts (2).
- g. Connect connectors (8 and 9) to receiver-transmitter-processor (1). Safety with lockwire.
- h. Install EMI cover assembly (A1-F18AC-LMM-000).
- i. Do Data Link System Functional Test (A1-F18AC-630-200, WP014 00).

7. RECEIVER-TRANSMITTER-PROCESSOR RT-1379()/ASW (77A-K001) - F/A-18B.

Support Equipment Required

None

Materials Required

Specification or Part Number	Nomenclature
MS20995NC32 (CAGE 96906)	Lockwire

8. REMOVAL.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).
- b. Unfasten fasteners and remove panel (1, figure 3).
- c. Unfasten fasteners and remove panel (4).
- d. Remove lockwire and disconnect connectors (2 and 3).
- e. Support receiver-transmitter-processor (4) and unfasten two bolts (11).
- f. Lift receiver-transmitter-processor (5) out of console for access to connectors (6 and 7).
- g. Disconnect connectors (65 and 7) from back of receiver-transmitter-processor (5).

- h. Remove receiver-transmitter-processor (5).

9. INSTALLATION.

- a. Make sure electrical power is off (A1-F18AC-LMM-000).

- b. On receiver-transmitter-processor (5, figure 3), set address switches (figure 4) to assigned aircraft address.

- c. Clean contact strip (9, figure 3) and electrical bonding area of receiver-transmitter-processor (5) for electrical bond (A1-F18AC-LMM-000).

- d. Connect connectors (6 and 7) to rear of receiver-transmitter-processor (4).

- e. While lowering receiver-transmitter-processor (4) into console, slide cables (6 and 7) aft.

- f. Securely engage pins (8).

- g. Support receiver-transmitter-processor (5) and secure with two bolts (11).

- h. Connect connectors (2 and 3). Safety with lock-wire.

- i. Clean mating surfaces of panels (1 and 4) and console railing for electrical bond (A1-F18AC-LMM-000).

- j. Install panel (1) and secure with fasteners.

- k. Install panel (4) and secure with fasteners.

- l. Do Data Link System Functional Test (A1-F18AC-630-200, WP014 00).

10. ILLUSTRATED PARTS BREAKDOWN.

- 11. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

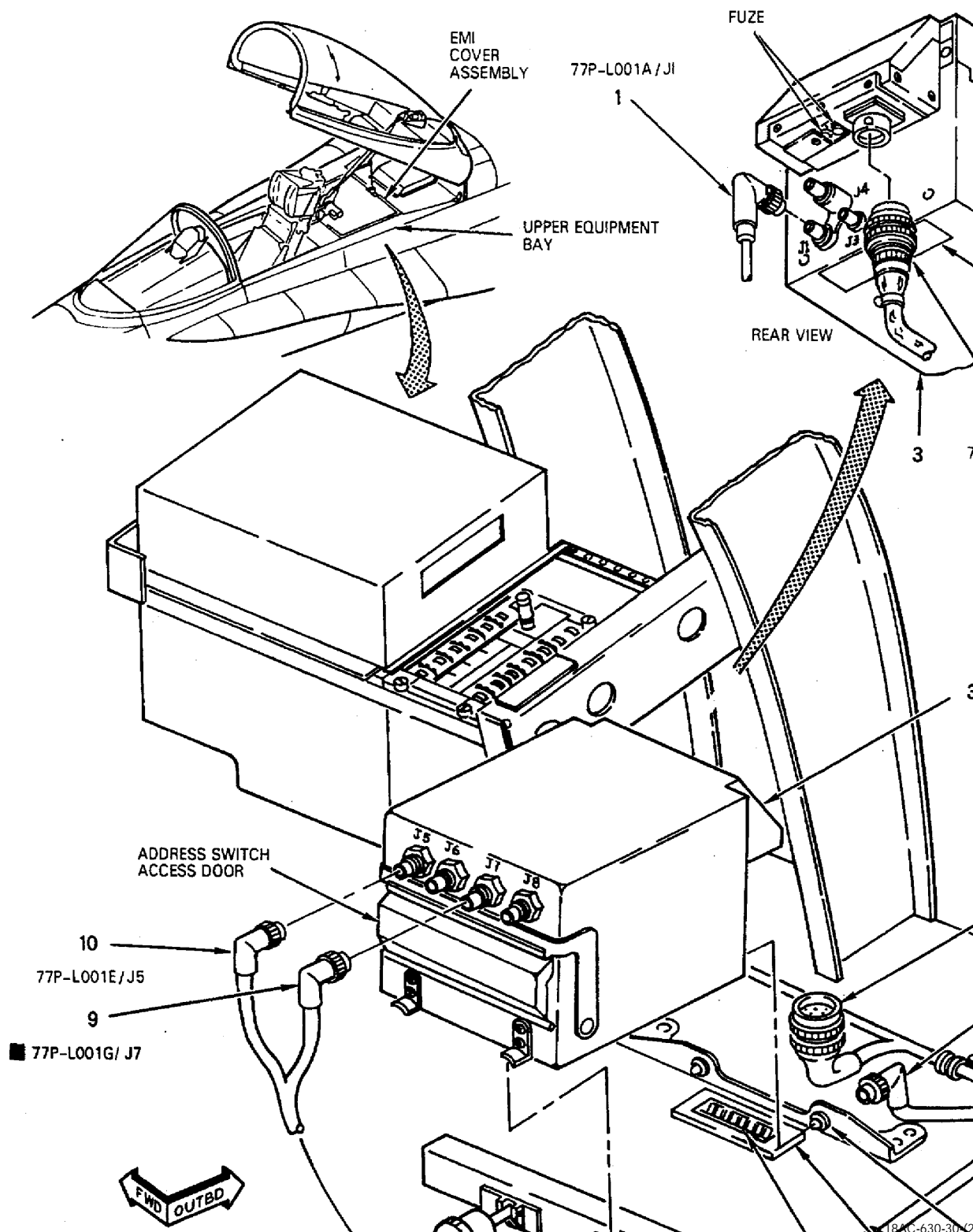


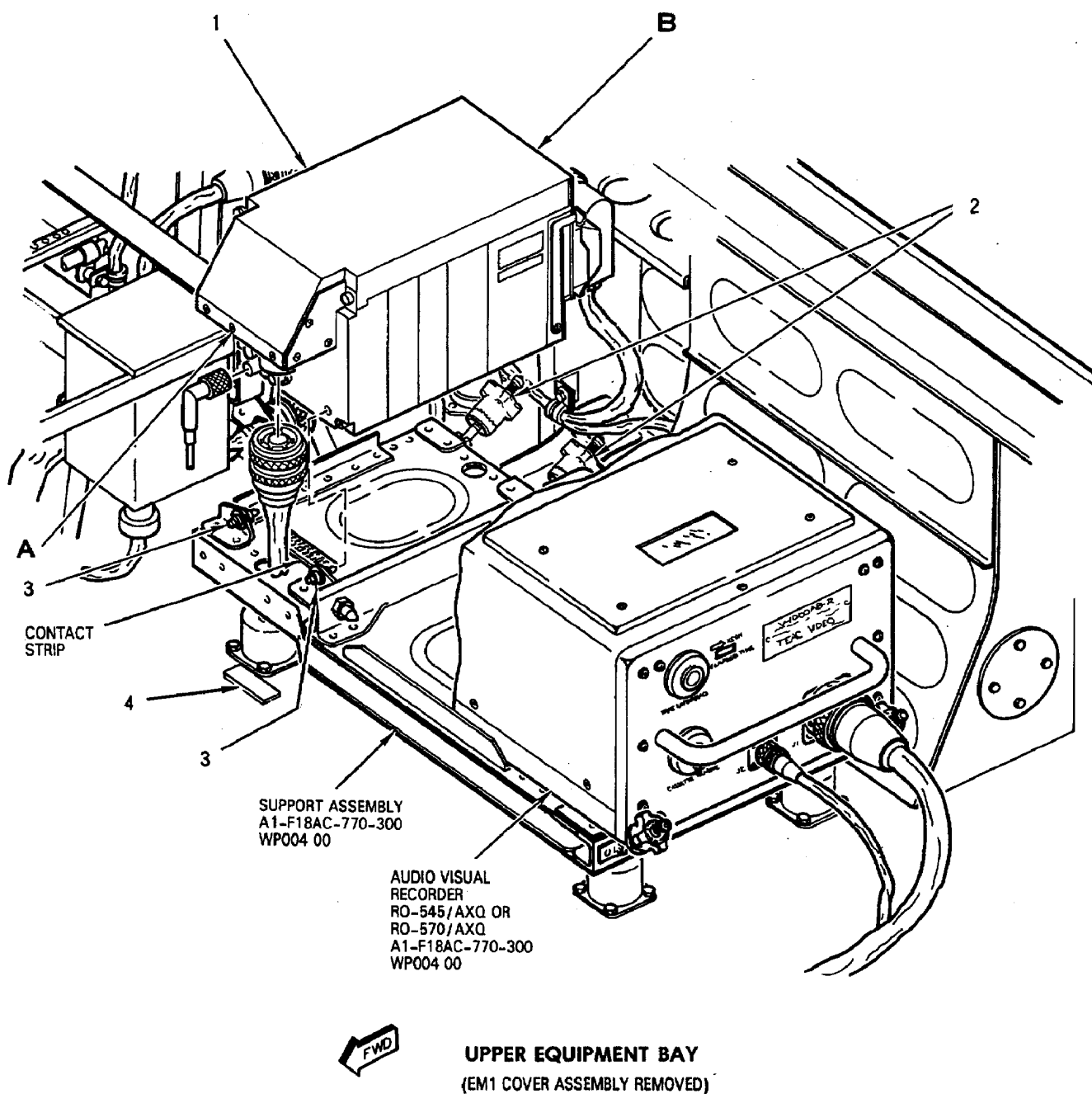
Figure 1. Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A
161353 THRU 161528 (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RECEIVER-TRANSMITTER-									
		PROCESSOR RT-1379()/ASW (77A-L001)									
		F/A-18A 161353 THRU 161528									
1	M39012/30-0503	.						CONNECTOR, PLUG (77P-L001A)	1		PAOZZ
2	D38999-26WE355SC	.						CONNECTOR, PLUG (77P-L001B)	1		PAOZZ
3	622-5663-002	.						RECEIVER-TRANSMITTER	1	*	PAOGD
		PROCESSOR RT-1379A/ASW (13499)									
		(77A-L001)									
	RT-1379A/ASW	.						SEE ABOVE (80058)	1		PAOGD
	662-5663-001	.						RECEIVER-TRANSMITTER-	1	*	PAOGD
		PROCESSOR RT-1379/ASW (13499)									
		(77A-L001)									
	RT-1379/ASW	.						SEE ABOVE (80058)	1	*	PAOGD
4	VS3258C3-1-0	.						PIN, SHOULDER, HEADLESS	2	*	PAOZZ
		(92215) (MCDONNELL SPEC									
		3M943C3-1-0)									
	AAP139C3-1-0	.						SEE ABOVE (84256)	2	*	PAOZZ
	D792681C1NO	.						SEE ABOVE (08524)	2	*	PAOZZ
	11415C3-1-0	.						SEE ABOVE (59563)	2	*	PAOZZ
	AN960JD10LL	.						WASHER (USE WITH INDEX 4)	4		PAOZZ
	NAS1291C3	.						NUT (USE WITH INDEX 4)	2		PAOZZ
5	74A314397-2153	.						PAD (76301)	1		MGOZZ
6	ST9M629-250	.						CONTACT STRIP (76301)	1		PAOZZ
	MS20470AD3 #	.						RIVET (AP)	2		-
7	MS14108-6	.						BOLT ASSEMBLY	2		PAOZZ
	MS20392-1C15	.						PIN (USE WITH INDEX 7)	2		PAOZZ
	MS24665-132	.						PIN, COTTER (USE WITH INDEX 7)	2		PAOZZ
	NAS620C5L	.						WASHER (UNDER COTTER PIN)	2		PAOZZ
		(USE WITH INDEX 7)									
8	74A890019-2201	.						MARKER, IDENTIFICATION	1		MDOZZ
		CONTROL PANEL (76301)									
9	31-34179-1	.						CONNECTOR, PLUG,	1		PAOZZ
		ELECTRICAL (77820) (MCDONNELL									
		SPEC 5M1953RP1) (77P-L001G)									
10	31-34179-1	.						CONNECTOR, PLUG, ELECTRICAL	1		PAOZZ
		(77820) (MCDONNELL SPEC									
		5M1953RP1) (77P-L001E)									

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

Figure 1. Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A
161353 THRU 161528 (Sheet 2)



18AC-630-30-(22-1)09

Figure 2. Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A 161702 AND UP (Sheet 1)

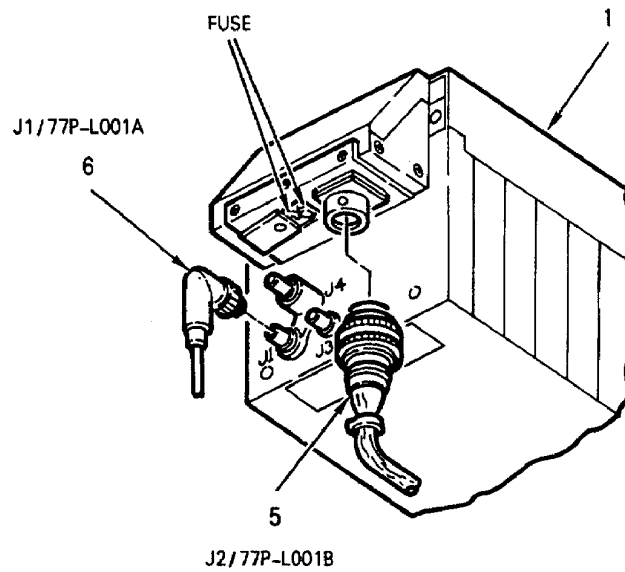
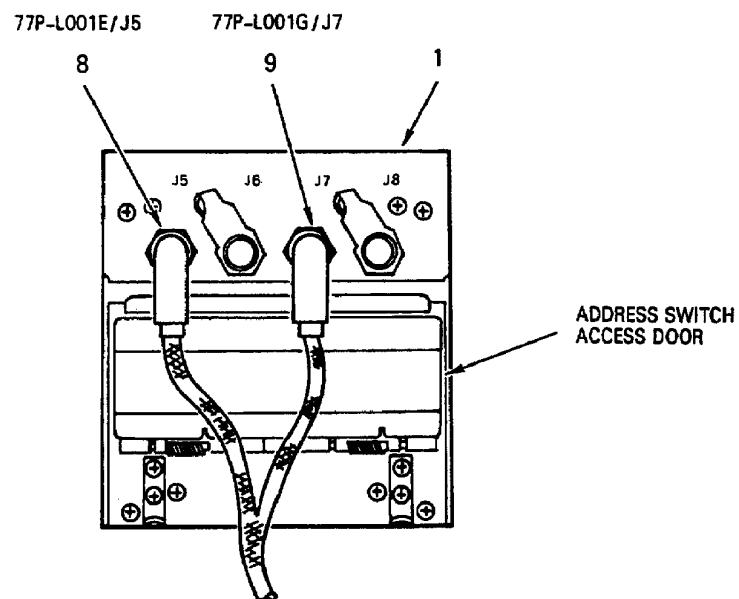
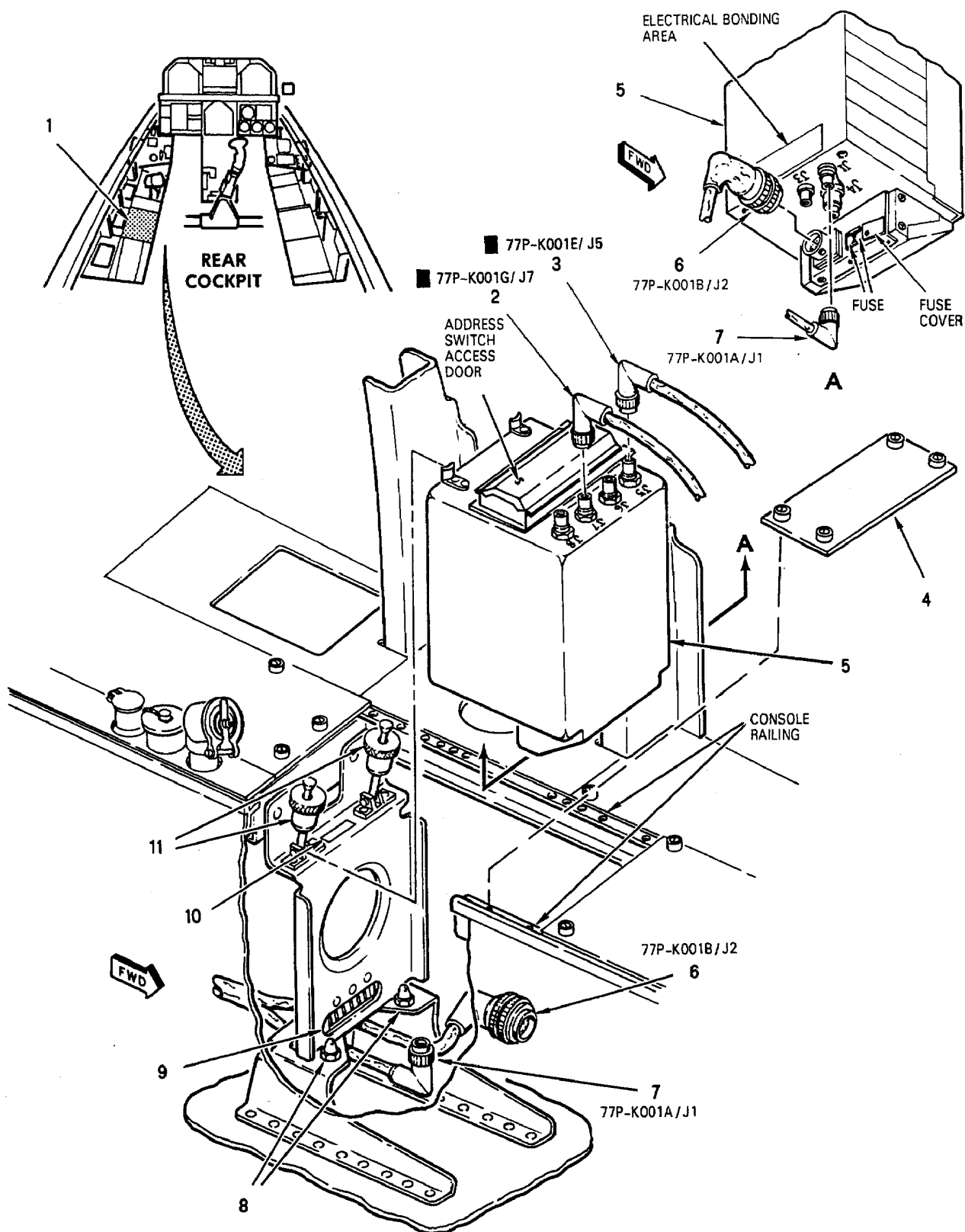
**A****B**

Figure 2. Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A
161702 AND UP (Sheet 2)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RECEIVER-TRANSMITTER-PROCESSOR									
		RT-1379()/ASW (77A-L001)									
		F/A-18A - 161702 AND UP									
1	622-5663-002	.	RECEIVER-TRANSMITTER						1		PAOGD
			PROCESSOR RT-1379A/ASW (13499)								
			(77A-L001)								
	RT-1379A/ASW	.	SEE ABOVE (80058)						1		PAOGD
	622-5663-001	.	RECEIVER-TRANSMITTER						1	*	PAOGD
			PROCESSOR RT-1379/SW (13499)								
			(77A-L001)								
	RT-1379/ASW	.	SEE ABOVE (80058)						1	*	PAOGD
2	MS14108-6	.	BOLT ASSEMBLY						2		PAOZZ
	3M39C1-17	.	PIN (76301) (USE WITH INDEX 2)						2		PAOZZ
	NS24665-132	.	PIN (76301) (USE WITH INDEX 2)						2		PAOZZ
	NAS620C5L	.	WASHER (UNDER COTTER PIN)						2		PAOZZ
			(USE WITH INDEX 2)								
3	V53258C3-1-0	.	PIN, SHOULDER, HEADLESS						2	*	PAOZZ
			(92215) (MCDONNELL SPEC								
			3M943C3-1-0)								
	AAP139C3-1-0	.	SEE ABOVE (84256)						2	*	PAOZZ
	D792681C1NO	.	SEE ABOVE (08524)						2	*	PAOZZ
	11415C3-1-0	.	SEE ABOVE (59563)						2	*	PAOZZ
	AN960JD10LL	.	WASHER (USE WITH INDEX 3)						4		PAOZZ
	NAS1291C3	.	NUT (USE WITH INDEX 3)						2		PAOZZ
4	74A890019-2201	.	MARKER, IDENTIFICATION						1		MDOZZ
			CONTROL PANEL (76301)								
5	D38999-26WE35SC	.	CONNECTOR, PLUG (77P-L001B)						1		PAOZZ
6	M39012/30-0503	.	CONNECTOR, PLUG (77P-L001A)						1		PAOZZ
7		.	DELETED								
8	31-34179-1	.	CONNECTOR, PLUG, ELECTRICAL						1		PAOZZ
			(77820) (MCDONNELL SPEC								
			5M1953RP1) (77P-L001E)								
9	31-34179-1	.	CONNECTOR, PLUG, ELECTRICAL								PAOZZ
			(77820) (MCDONNELL SPEC								
			5M1953RP1) (77P-L001G)								
* ALTERNATE OR EQUIVALENT PARTS.											
(WP002 00)											

Figure 2. Receiver-Transmitter-Processor RT-1379()/ASW (77A-L001) - F/A-18A
161702 AND UP (Sheet 3)



18AC-630-30-(21)11

Figure 3. Receiver-Transmitter-Processor RT-1379()/ASW
(77A-K001) - F/A-18B (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		RECEIVER-TRANSMITTER-PROCESSOR									
		RT-1379()/ASW (77A-K001) F/A-18B									
1	9M381D7E	.	PANEL (12829) (MCDONNELL SPEC	.	.	.	.	.	1		PAOZZ
			9M381D7)								
2	31-34179-1	.	CONNECTOR, PLUG, ELECTRICAL . . . . .	.	.	.	.	.	1		PAOZZ
			(77820) (MCDONNELL SPEC								
			5M1953RP1) (77P-K001G)								
3	31-34179-1	.	CONNECTOR, PLUG, ELECTRICAL . . . . .	.	.	.	.	.	1		PAOZZ
			(77820) (MCDONNELL SPEC								
			5M1953RP1) (77P-K001E)								
4	9M381A1L	.	PANEL (76301) (REPLACES 9M381B3) . . . . .	.	.	.	.	.	1	*	PAOZZ
	9M381A1LE	.	PANEL (12829) (MCDONNELL SPEC . . . . .	.	.	.	.	.	1	*	PAOZZ
			9M381								
	9M381B3	.	PANEL (12829) (USE UNTIL . . . . .	.	.	.	.	.	1	A	PAOZZ
			EXHAUSTED)								
5	622-5663-002	.	RECEIVER-TRANSMITTER . . . . .	.	.	.	.	.	1		PAOZZ
			PROCESSOR RT-1379A/ASW (13499)								
			(77A-K001)								
	RT-1379A/ASW	.	SEE ABOVE (80058) . . . . .	.	.	.	.	.	1		PAOGD
	622-5663-001	.	RECEIVER-TRANSMITTER . . . . .	.	.	.	.	.	1	*	PAOGD
			PROCESSOR RT-1379/ASW (13499)								
			(77A-K001)								
	RT-1379/ASW	.	SEE ABOVE (80058) . . . . .	.	.	.	.	.	1	*	PAOGD
6	D38999/26WE35SC	.	CONNECTOR, PLUG (77P-K001B) . . . . .	.	.	.	.	.	1		PAOZZ
7	31-4371-3009	.	CONNECTOR, PLUG, ELECTRICAL . . . . .	.	.	.	.	.	1	*	PAOZZ
			(74868) (MCDONNELL SPEC								
			ST5M1332-001) (77P-K001A)								
	1207-079-A00E	.	SEE ABOVE (00795) . . . . .	.	.	.	.	.	1	*	PAOZZ
	126-6	.	SEE ABOVE (91836) . . . . .	.	.	.	.	.	1	*	PAOZZ
8	VS3258C3-1-0	.	PIN, SHOULDER, HEADLESS (92215) . . . . .	.	.	.	.	.	2	*	PAOZZ
			(MCDONNELL SPEC 3M943C3-1-0)								
	AP139C3-1-0	.	SEE ABOVE (84256) . . . . .	.	.	.	.	.	2	*	PAOZZ
	D792681C1NO	.	SEE ABOVE (08524) . . . . .	.	.	.	.	.	2	*	PAOZZ
	11415C3-1-0	.	SEE ABOVE (59563) . . . . .	.	.	.	.	.	2	*	PAOZZ
	AN960JD10	.	WASHER (UNDER NUT) (USE . . . . .	.	.	.	.	.	2		PAOZZ
			WITH INDEX 8)								
	NAS1291C3	.	NUT (USE WITH INDEX 8) . . . . .	.	.	.	.	.	2		PAOZZ
9	ST9M629-225	.	CONTACT STRIP (76301) . . . . .	.	.	.	.	.	1		PAOZZ
	MS20470AD3 #	.	RIVET (AP) . . . . .	.	.	.	.	.	2		-
10	74A890019-2233	.	MARKER, IDENTIFICATION - . . . . .	.	.	.	.	.	1	B	MGOZZ
			CONTROL PANEL (76301)								
11	MS14108-6	.	BOLT ASSEMBLY (FASTENER) . . . . .	.	.	.	.	.	2		PAOZZ
	MS20392-1C19	.	PIN (USE WITH INDEX 11) . . . . .	.	.	.	.	.	2		PAOZZ
	NAS620C5	.	WASHER (USE WITH INDEX 11) . . . . .	.	.	.	.	.	2		PAOZZ
	ST9M613-2	.	SPRING (76301) (USE WITH INDEX 11) . . . . .	.	.	.	.	.	2		PAOZZ
	MS24665-132	.	PIN, COTTER (USE WITH INDEX 11) . . . . .	.	.	.	.	.	2	*	PAOZZ

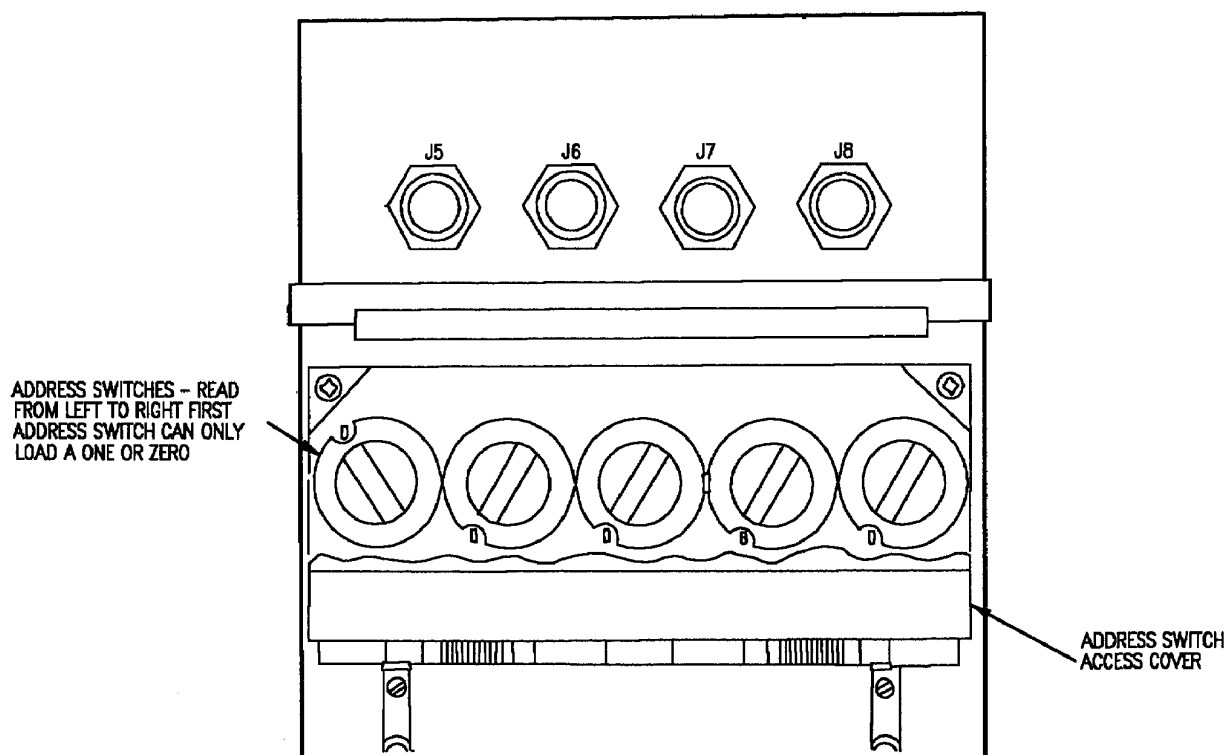
* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

LENGTH/SIZE TO BE DETERMINED AT
INSTALLATION.

**Figure 3. Receiver-Transmitter-Processor RT-1379()/ASW
(77A-K001) - F/A-18B (Sheet 2)**

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		CODE		USABLE ON				MODEL			
		A		161354 THRU 161360				F/A-18B			
		B		161932 & UP				F/A-18B			

Figure 3. Receiver-Transmitter-Processor RT-1379()/ASW
(77A-K001) - F/A-18B (Sheet 3)



RECEIVER-TRANSMITTER-PROCESSOR
RT-1379()/ASW
(FRONT VIEW)

Figure 4. Address Switch Selection

ORGANIZATIONAL MAINTENANCE**SYSTEM MAINTENANCE WITH IPB****INTERNAL AIRCRAFT INSTRUMENTATION SUBSYSTEM****AN/ASQ-T16 (61A-A246) AND AN/ASQ-T31(V)****TACTICAL AIR COMBAT TRAINING SYSTEM**

This Work Package supersedes WP017 00, dated 1 September 1992.

Reference Material

Line Maintenance Procedures	AI-F18AC-LMM 000
Line Maintenance Access Doors	A1-F18AC-LMM 010
Weapon Control Systems	A1-F18AC-740-300
Gun Command Signal Encoder-Decoder KY-855/AYQ-9(V)	WP011 00

Alphabetical Index

Subject	Page No.
Illustrated Parts Breakdown	3
Illustration	4
Parts List	6
Installation	2
Internal Aircraft Instrumentation Subsystem AN/ASQ-T16 (61A-A246) and AN/ASQ-T31(V) Figure 1	4
Materials Required	1
Parts List	6
Removal	2
Support Equipment Required	1

Record of Applicable Technical Directives

None

Support Equipment Required

None

Materials Required

Specification

or Part Number

Nomenclature

M520995NC20
(CAGE 96906)

Lockwire

1. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Open door 6 and secure in the open position (A1-F18AC-LMM-010)

c. Remove lower ball-lock pin securing aircraft instrumentation subsystem (1, figure 1).

d. Raise aircraft instrumentation subsystem (1) up to load position and secure to door 6 latch using lower ball-lock pin.

e. Remove clamp (5) and attaching parts from cable assembly.

f. Remove lockwire from connector (4).

g. Disconnect connectors (2, 3, and 4).

h. Support aircraft instrumentation subsystem (1) and remove lower ball-lock pin securing aircraft instrumentation subsystem (1) to door 6 latch.

i. Support aircraft instrumentation subsystem (1) and remove two upper ball-lock pins.

j. Remove aircraft instrumentation subsystem (1) from aircraft.

k. Inspect aircraft instrumentation subsystem (1) for missing or loose hardware.

l. Remove Gun Command Signal Encoder-Decoder KY-855/AYQ-9(V) (A1-F18AC-740-300, WP011 00).

m. Connect connectors (2 and 3) to receptacles (6 and 8).

n. Connect connector (4) to receptacle (11). Safety with lockwire.

o. Install Gun Command Signal Encoder-Decoder KY-855/AYQ-9(V) (A1-F18AC-740-300, WP011 00).

p. If aircraft instrumentation subsystem (1) is not going to be installed, install Inventory Bag P/N 74D000004-1017 for F/A-18A or P/N 74D000004-1019 for F/A-18B to the stowage position in door 6.

q. Close door 6 (A1-F18AC-LMM-010).

2. INSTALLATION.

NOTE

Make sure corrosion preventive treatment of fasteners and attaching parts is done during installation (A1-F18AC-LMM-000).

a. Make sure electrical power is off (A1-F18ACLMM-000).

b. Open door 6 and secure in the open position (A1-F18AC-LMM-010).

c. If installed, remove Inventory Bag P/N 74D000004-1017 for F/A-18A or P/N 74D000004-1019 for F/A-18B from the stowage position in door 6. The Inventory Bag must remain with the aircraft. Stow in a temporary location for reinstallation when aircraft instrumentation subsystem (1, figure 1) is removed from aircraft.

d. Remove Gun Command Signal Encoder-Decoder KY-855/AYQ-9(V) (A1-F18AC-740-300, WP011 00).

e. Remove lockwire from connector (4) on receptacle (11).

f. Disconnect connectors (2, 3, and 4) from receptacles (6, 8, and 11).

g. Install Gun Command Signal Encoder-Decoder KY-855/AYQ-9(V) (A1-F18AC-740-300, WP011 00).

h. Inspect aircraft instrumentation sub system (1) for missing or loose hardware.

i. Install aircraft instrumentation subsystem (1) in door 6 using two upper bail-lock pins.

j. Raise aircraft instrumentation subsystem (1) up to load position and secure to door 6 latch using lower ball-lock pin.

k. Connect connectors (2 and 3) to aircraft instrumentation subsystem (1).

l. Connect connector (4) to aircraft instrumentation subsystem (1). Safety with lockwire.

m. Secure cable assembly to aircraft instrumentation sub system (1) with clamp (5) and attaching parts.

n. Support aircraft instrumentation subsystem (1) and remove lower ball-lock pin securing aircraft instrumentation subsystem (1) to door 6 latch.

o. Lower aircraft instrumentation subsystem (1) to flight position and secure to aircraft structure with lower ball-lock pin.

p. Close door 6 (A1-F18AC-LMM-010).

3. ILLUSTRATED PARTS BREAKDOWN.

4. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

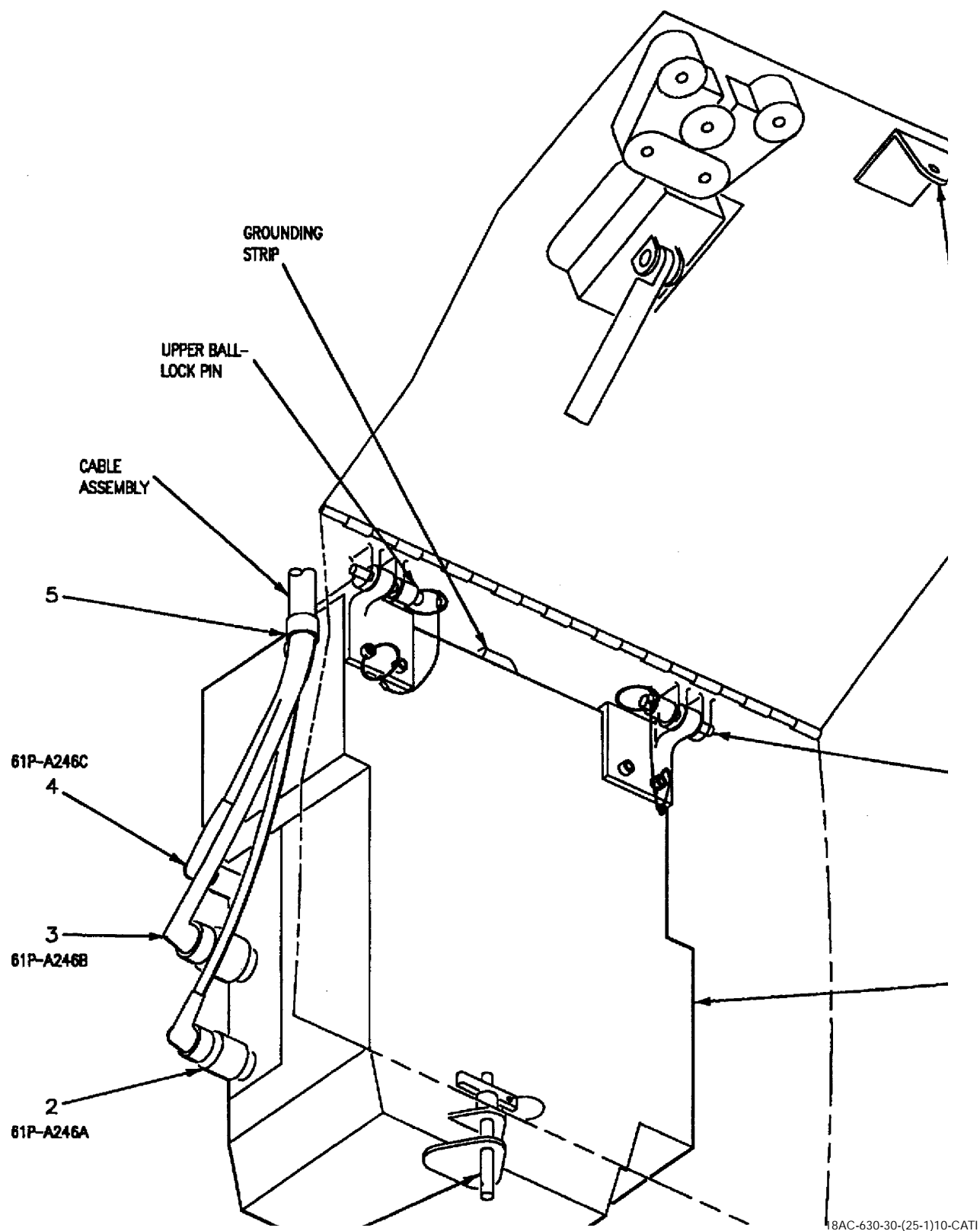


Figure 1. Internal Aircraft Instrumentation Subsystem AN/ASQ-T16 (61A-A246) and AN/ASQ-T31(V) (Sheet 1)

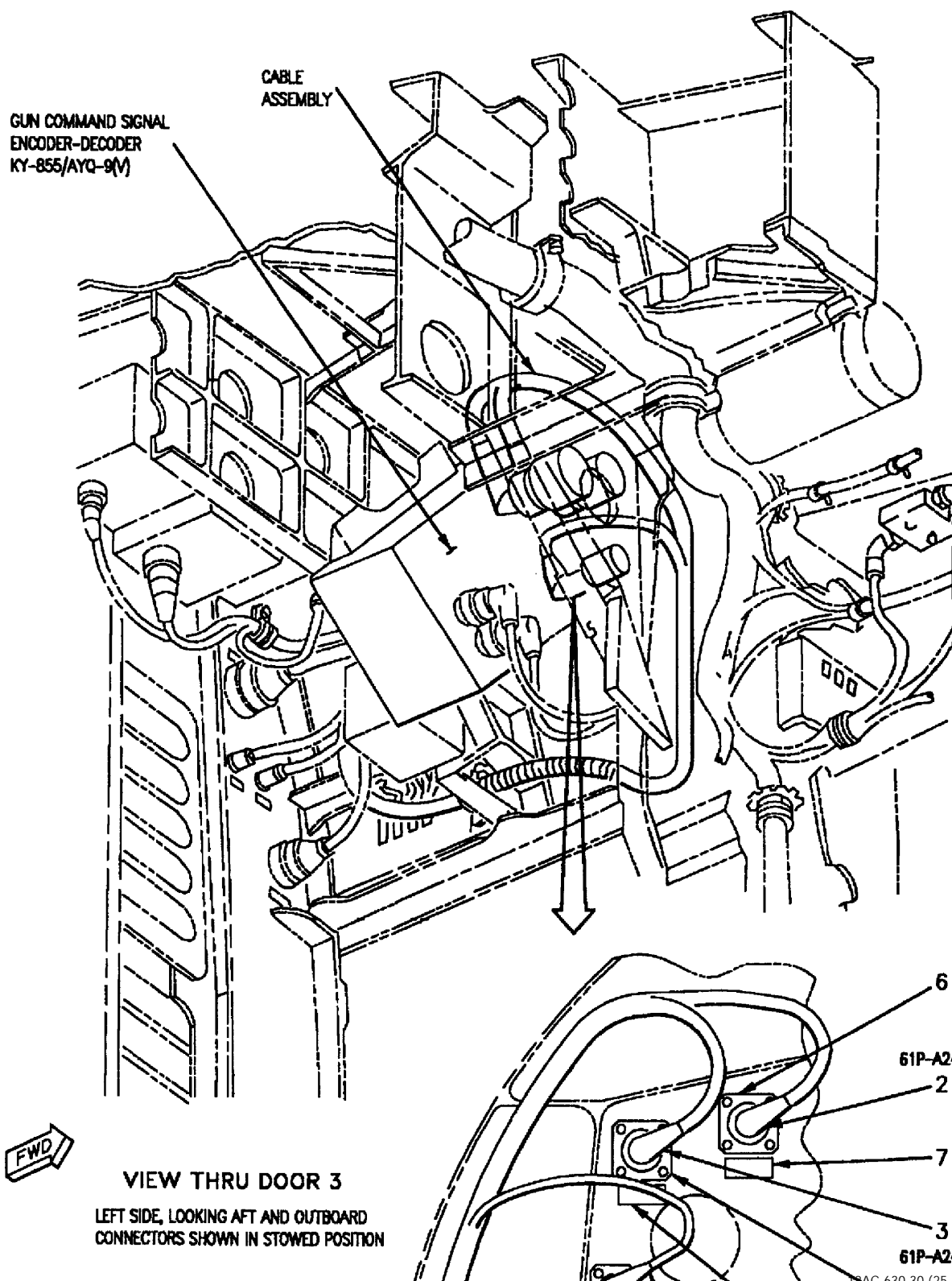


Figure 1. Internal Aircraft Instrumentation Subsystem AN/ASQ-T16 (61A-A246) and AN/ASQ-T31(V) (Sheet 2)

INDEX NO.	PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USE ON CODE	SM&R CODE
		.INTERNAL AIRCRAFT			
		INSTRUMENTATION SUBSYSTEM			
		AN/ASQ-T16, AN/ASQ-T31(V)			
		(61A-A246)			
1	3200AS100	. AIRCRAFT INSTRUMENTATION	1	*	PAOHD
		SUBSYSTEM, INTERNAL, AN/ASQ-T16			
		AND AN/ASQ-T31-(V) (AIRCRAFT			
		INSTRUMENTATION SUBSYSTEM)			
		(61A-A246)			
	1B5110-2	. SEE ABOVE (94987)	1	*	PAOHD
2	MS27467T11835S	. CONNECTOR, PLUG (61P-A246A)	1		PAOZZ
3	MS27467T13B35S	. CONNECTOR, PLUG (61P-A2468)	1		PAOZZ
4	SP4592-6005	. CONNECTOR, PLUG (95077)	1		PAOZZ
		(MCDONNELL SPEC ST5M1396-OR)			
		(61P-A246C)			
5	MS21919WDG7	. CLAMP	1		PAOZZ
	NAS673V2	. BOLT (AP)	1		PAOZZ
	AN960JD10LL	. WASHER (AP)	1		PAOZZ
6	10-427405-119	. DUMMY CONNECTOR,	1	*	PAOZZ
		RECEPTACLE (RECEPTACLE)			
		(77820) (MCDONNELL SPEC			
		ST5M1402-11)			
	650PS001NF11	. SEE ABOVE (06324)	1	*	PAOZZ
	1107-001-11	. SEE ABOVE (59976)	1	*	PAOZZ
7	74AB90601-2883	. MARKER, IDENTIFICATION	1		MGOZZ
		ELECTRICAL (76301)			
		(STOWAGE RECEPTACLE FOR			
		61P-A246A)			
8	10-427405-139	. DUMMY CONNECTOR, RECEPTACLE	1	*	PAOZZ
		(RECEPTACLE) (778201 (MCDONNELL			
		SPEC ST5M1402-13)			
	650PS001NF13	. SEE ABOVE (06324)	1	*	PAOZZ
	1107-001-13	. SEE ABOVE (59976)	1	*	PAOZZ
9	74AB90601-2884	. MARKER, IDENTIFICATION	1		MGOZZ
		ELECTRICAL (76301) (STOWAGE			
		RECEPTACLE FOR 61P-A246B)			
10	74A890601-2885	. MARKER, IDENTIFICATION	1		MGOZZ
		ELECTRICAL (76301) (STOWAGE			
		RECEPTACLE FOR 61P-A246C)			
11	150292-0004	. DUMMY CONNECTOR, RECEPTACLE	1	*	PAOZZ
		(RECEPTACLE) (71468) (MCDONNELL			
		SPEC ST5M1417-001)			
	A79-32-2	. SEE ABOVE (91836)	1	*	PAOZZ
	31-4522	. SEE ABOVE (74868)	1	*	PAOZZ
	1263000A090	. SEE ABOVE (00795)	1	*	PAOZZ

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

Figure 1. Internal Aircraft Instrumentation Subsystem AN/ASQ-T16
(61A-A246) and AN/ASQ-T31(V) (Sheet 3)

ORGANIZATIONAL MAINTENANCE

SYSTEM MAINTENANCE WITH IPB

BLADE ANTENNA AS-4319/ASQ
(61E-G244)ANTENNA DUMMY CONNECTOR
PART NO. 74A460821

TACTICAL AIR COMBAT TRAINING SYSTEM

This Work Package supersedes WP018 00, dated 1 January 1996.

Reference Material

Line Maintenance Procedures	A1-F18AC-LMM-000
Line Maintenance Access Doors	AI-F18AC-LMM-010

Alphabetical Index

Subject	Page No.
Antenna Dummy Connector	2
Blade Antenna AS-4319/ASQ (61E-G244) and Antenna Dummy Connector. Figure 1	4
Installation	3
Materials Required	2
Parts List	5
Removal	2
Support Equipment Required	2
Blade Antenna AS-4319/ASQ	2
Blade Antenna AS-4319/ASQ (61E-G244) and Antenna Dummy Connector, Figure 1	4
Installation	2
Materials Required	2
Parts List	5
Removal	2
Support Equipment Required	2
Illustrated Parts Breakdown	3
Illustration	4
Parts List	5

Record of Applicable Technical Directives

None

1. BLADE ANTENNA AS-4319/ASQ.

Support Equipment Required

Part Number or Type Designation	Nomenclature
-	Torque Wrench, 0 to 25 Inch-Pounds

Materials Required

Specification or Part Number	Nomenclature
MS20995NC20 (CAGE 96906)	Lockwire

2. REMOVAL.

- Make sure electrical power is off (A1-F18AC-LMM-000).
- Remove lockwire and disconnect connector (5, figure 1) from antenna (7).
- Support antenna (7) and remove attaching parts.
- Remove antenna (7).
- Inspect antenna (7) for damage.
- If receptacle (1) is to be installed, refer to ANTENNA DUMMY CONNECTOR, this WP.

3. INSTALLATION.

NOTE

Make sure corrosion preventive treatment of fasteners and attaching parts is done during installation (A1-F18AC-LMM-000).

- Make sure electrical power is off (A1-F18AC-LMM-000).
- If installed, remove receptacle (1, figure 1), refer to ANTENNA DUMMY CONNECTOR, this WP.

c. Inspect aircraft for excessive paint build-up at the fore and aft antenna base plate contact points. If excessive paint build-up or ridge exists, remove excess paint/ridge before antenna (7) installation.

d. If antenna (7) is P/N 3200AS409-2, verify that antenna base plate gasket is installed over antenna (7) rf barrel.

e. Secure antenna (7) to nose landing gear right forward door with attaching parts installed only one or two turns.

f. Torque each screw in three step increments of 9, 15, and 17.8 in-lbs using the following torque sequence for each step: right front-left aft-left front-right aft.

g. Connect connector (5) to antenna (7). Safety with lockwire.

h. Touch up aircraft paint at antenna base plate contact points as required.

4. ANTENNA DUMMY CONNECTOR.

Support Equipment Required

None

Materials Required

Specification or Part Number	Nomenclature
MS20995NC20 (CAGE 96906)	Lockwire

5. REMOVAL.

a. Make sure electrical power is off (A1-F18AC-LMM-000).

b. Remove lockwire and disconnect connector (5, figure 1) from receptacle (1).

c. Remove receptacle (1) and attaching parts.

d. If antenna (7) is to be installed, refer to BLADE ANTENNA AS-4319/ASQ, this WP.

6. INSTALLATION.

NOTE

Make sure corrosion preventive treatment of fasteners and attaching parts is done during installation (A1-F18AC-LMM-000).

a. Make sure electrical power is off (A1-F18AC-LMM-000).

■ b. If installed, remove antenna (7, figure 1), refer to BLADE ANTENNA AS-4319/ASQ, this WP.

c. Install receptacle (1) and attaching parts.

d. Connect connector (5) to receptacle (1). Safety with lockwire.

7. ILLUSTRATED PARTS BREAKDOWN.

8. This illustrated parts breakdown has data required for identifying and ordering parts. The manual introduction has more information on IPB data.

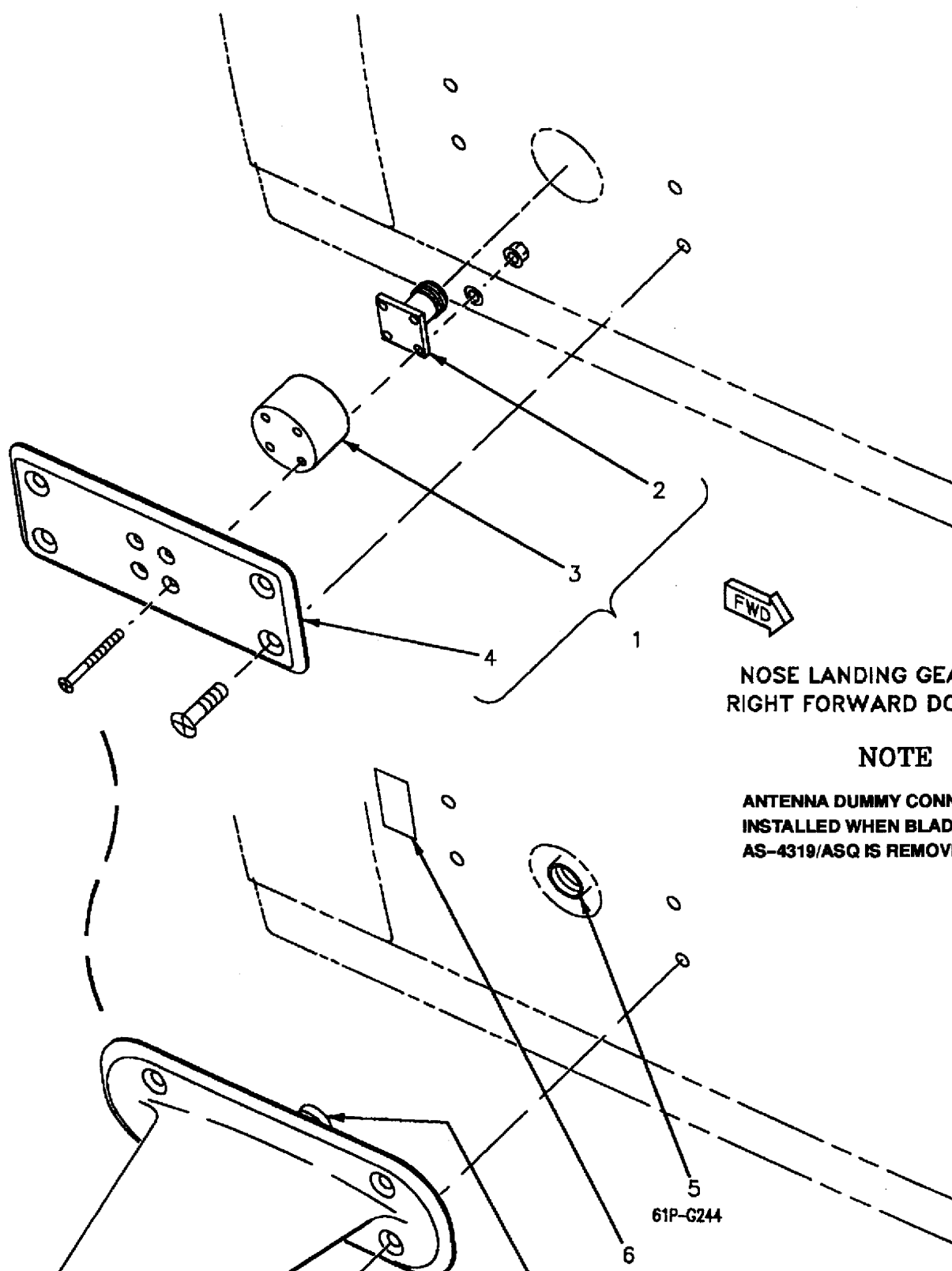


Figure 1. Blade Antenna AS-4319/ASQ (61E-G244) and Antenna Dummy Connector (Sheet 1)

INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USE ON CODE	SM&R CODE
		1	2	3	4	5	6	7			
		BLADE ANTENNA AS-4319/ASQ (61E-G244) AND ANTENNA CONNECTOR									
1	74A460821-1001	.	DUMMY CONNECTOR - ANTENNA,						1		AOOOO
		.	R/H DOOR, NLG, ASSY OF								
		.	(RECEPTACLE) (76301)								
2	31-4522	.	DUMMY CONNECTOR (74868)						1	*	PAOZZ
		.	(MCDONNELL SPEC STSM1417-001								
	150292-0004	.	SEE ABOVE (71468)						1	*	PAOZZ
	A79-32-2	.	SEE ABOVE (91836)						1	*	PAOZZ
	1263000A090	.	SEE ABOVE (00795)						1	*	PAOZZ
	NAS1514P440-18P	.	BOLT (AP)						4		PAOZZ
	NAS620C4L	.	WASHER (AP) (UNDER NUT)						4		PAOZZ
		.	(80205) (MCDONNELL SPEC 4M36-01057)								
	NAS1291C04M	.	NUT (AP)						4		PAOZZ
3	74A460819-2001	.	MOUNTING PAD - DUMMY						1		MGOZZ
		.	CONNECTOR, ANT, R/H DOOR, NLG (76301)								
4	74A460820-2001	.	PLATE, STRUCTURAL, AIRCRAFT						1		MGOZZ
		.	DUMMY CONNECTOR, ANT, R/H DR, NLG (76301)								
5	SF4S92-6005	.	CONNECTOR, PLUG, ELECTRICAL						1		PAOZZ
		.	(95077) (MCDONNELL SPEC ST5M1396-OR) (61P-G244)								
6	74A4890054-2041	.	MARKER, IDENTIFICATION						1		MDOZZ
		.	ELECTRICAL (76301)								
7	3200A409-2	.	ANTENNA, BLADE, AS-4319/ASQ						1	*	PAHDD
		.	(61E-G244)								
	3200AS409-2	.	SEE ABOVE (94987)						1	*	PAHDD
	HT4025L3-3	.	SCREW (AP) (73197) (MCDONNELL						4		PAOZZ
		.	SPEC ST3M455-3L3-1)								

* ALTERNATE OR EQUIVALENT PARTS.
(WP002 00)

Figure 1. Blade Antenna AS-4319/ASQ (61E-G244) and
Antenna Dummy Connector (Sheet 2)

